

HMVBV16	8159	661692	1 - 584	15 - 598	AP000264, AP000279, AC006237, AP000130, AP000208, and AP000247.
HMVBV189	8160	786118	1 - 440	15 - 454	AA195746, AW292553, W88512, AJ916149, and AA765346.
HMVB083	8161	780366	1 - 870	15 - 884	RI8969, and AA491495.
HMVB091	8162	790025	1 - 506	15 - 520	AA028167, AF700675, AA035731, AJ051312, AW207134, AJ377083, and AJ914607.
HMVB052	8163	726546	1 - 435	15 - 449	AA973466, and R31969.
HMVB044	8164	716410	1 - 372	15 - 386	W39569, A1638849, AJ038503, W44924, AJ203113, and AJ864025.
HMVBAT54	8165	888180	1 - 695	15 - 709	AA676928, and W86985.
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HMVAAT56	8166	726515	1 - 432	15 - 446	H13903.
HMVAAP56	8167	732985	1 - 501	15 - 515	AA128982, AI149641, AJ962865, AI871879, AI346313, AI024604, AA743300, AA293701, AA292933, AH706611, R40595, AW303434, AA833709, and AW005730.
					R59687.
HMVAAP71	8168	761400	1 - 364	15 - 378	R53772.
HMVAAP52	8169	861210	1 - 439	15 - 453	N72471, T80710, and AC009320.
HMVAAC67	8170	751600	1 - 797	15 - 811	AA635986.
HMSPH53	8171	861245	1 - 406	15 - 420	AI056701, W60140, N63147, AI478510, AA181306, AA187045, C14014, T74524, AA828045, AA127426, AA487209, AI023052, AI356440, H07953, AA298365, AI254779, AA477503, AA757426, AW275498, AW438539, AA809546, AW084445, AT753092, AA657835, AA613630, AI051037, AW300711, AA581525, AA525823, AA879053, AI890324, T96582, AA593828, H51061, AI583106, AI377161, AI345891, AA164891, AA484892, F23338, AA745383, AI355103, AA074143, AA375133, AI311276, AA701080, AC008038, U85195, AC005231, AC003982, AC009247, AP000115, AC006953, AC006057, U91326, AC005231, AC004531, AC003982, AC007371, AC005180, Z94802, AI078621, AI121655, AC004217, D00591, AC006312, AC005399, AC002056, AC004447, AC002550, AC005722, AF002223, AC004962, AC004890, AI135960, AI131016, AI022476, AI109798, Z84466, AC005288, AC004216, AI024498, AC005081, AC000082, AC007728, AC007308, AI133163, AI050332, AL050348, AC004158, AC004817, AC002544, AC006211, AC000247, AP000032, AF015262, AI022322, AC004949,

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HMSPA30	8173	861265	1 - 491	15 - 505	AA005143.
HMSO028	8174	861287	1 - 460	15 - 474	AL890285, AA835369, D87435, and AF068755.
HMSOJ88	8175	861292	1 - 588	15 - 602	AA179756, AC007842, and AC006312.
HMSOJ01	8176	915084	1 - 779	15 - 793	AA449866, H64299, AA760923, AL243157, AL537197, AA807264, AA810059, AA490995, AL186126, AA810429, AW188231, AP17502, AL076044, AW016048, AA131996, AA724113, AL131830, AA741064, AA737445, and AB020677.
HMSOH03	8177	922828	1 - 743	15 - 757	R60302, F06228, R18381, AW378532, AA635310, AC004851, AC005529, AC004887, AC004813, AL022319, Z84484, AC002115, AL022316, AC007842, AC004874, AC004967, AL031428, Z77249, Z95116, AL034429, AC005015, AC005594, AC003041, AP000071, AC006388, AC010209, AC004216, AC003101, AC005527, AL121825, AC004794, AC005592, AC007425, AC005251, AC010206, AC008119, U91321, AL049576, AC006536, AL049631, AC002312, AC004526, AC004223, AC005041, AL020997, AC006241, AC000379, AC004859, and AC004913.
HMSNP06	8178	934161	1 - 424	15 - 438	AL362898, and AB007866.
HMSNG04	8179	926845	1 - 418	15 - 432	F23240, and F34475.

HMSMY10	8180	963431	1 - 418	15 - 432	AA694078, and T85377.
HMSMW91	8181	861336	1 - 117	15 - 131	AA677723, and AA376375.
HMSMW64	8182	861338	1 - 710	15 - 724	AA489878, AA773463, AA828637, AA613232, AA626040, AI580250, AA6440710, AI932599, AA507822, AA559241, AI912401, AI933714, AI457389, AA633798, AA502683, AA515048, AA53216, AA157845, AI500453, AA714282, AW073510, AA581247, AI146595, AA832145, AA146578, AA760808, AI022554, AH39910, AA837035, AW302013, AT783911, AI570943, AW090144, AI044471, AA452887, AA410828, AI056177, AA493226, AA501794, AI434695, AA847499, F08248, AA487726, AA564779, AA548040, AI524360, CI5363, AI216151, AA779783, NS8329, AW193265, AW275719, AI043105, AW021583, AA877992, AI048925, AI347810, AA228778, AW265735, AI471572, AA580808, AI017251, AI554471, N71033, AI244127, AA515133, AA229912, AI471691, N72524, H58354, AA405493, AA651639, AI923052, N95817, AW069769, AA630854, AW338179, AW438643, AA862243, AI002734, N64587, AI620585, AI561116, H07953, AI270476, AA666295, AI382825, AI044591, AA489806, AA302973, AA084609, AA410788, AI888468, AA749235, AA613627, AA532700, AI079734, AA904275, AA262752, AI674840, AA586661, H85792, AA491814, AA496927, AI580707, AI915293, AI355803, N22037, AA908431, CI4967, AI284640, AI252506, AI356440, AI805350, AA806796, AI186438, AA302327, AA491955, AA464739, AA569471, W02403, AW272294, AW163763, AA721158, AA658362, AI377413, AA488746, AI049643, AC000003, AC005763, AI035422, AC004967, AC005225, AC005619, AC010205, AC005409, AC004491, AI080243, AP000512, AC004963, AC005399, U91323, AC005808, AC005531, AC006276, AI09801, U78027, AC004585, AP000501, AC006449, AC010170, AC007546, AC002558, AI035587, AP000513, AC004209, AC007193, AC002319, AC005069, AP000310, AI049869, AC004598, U73636, Z97054, AI034420, AC003108, AC002350, AI031291, AC006275, AI133448, AC005274, AC004913, AC003030, AC007308, AC005305, Z82206, AC005330, AC004878, AI117354, AC004832, AC005175, AI035398, AC005412, AB014077, AC002369, AI049699, AP000236, AC007151, AC005231, Z98051, AC002425, AC004655, AC004774, AI031311, AI121638, AD000092, AI031848, AC000134, AI031427, AI049576, AI0477340, AI008635, AC002996, U62292, AC004228, AI109847, AC005740, AC005919, Z93023, AC007226, AP000173, AC004686, AC004590, AC005914, AC004876, AI034553, AC007993, AI008582, AC004382, AC002492, AI022312, AC007227, AC004149, AC006023, AC005971, AP045555, AP045533, AC004049, AP047825, AC004797, AC007842, AI035685, AC002115, AI022724, AC005200, U91326, AC004099, U63721, AC006121, Y18000, AC005067, AI031685, AI031283, AI034429, AI023575, AI022165, AC006317, AI109984, AI109798, AC005253, AC007030, AI049776, AC004859, AC007565, AC007036, AC007229, AC006285, AP000091, AC002351, AC005736, AI031186, Z95115, Z83826, AC005512, AI079333, AC002395, AC005952, AF107257, AF111169, AC007792, AI035462, AC007435, AI049569, AC005086, AP000289, AC006430, AC007055, AI049540, U85195, AB023049, AF038458, AC004447,

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HMSMN59	8183	861341	1 - 595	15 - 609	AA132854, and AA132760.
HMSMN71	8184	927097	1 - 635	15 - 649	AT114712, C06057, AA873553, AW439714, AA488984, AA758246, AL179212, AL038707, AL565960, AA313336, AL039448, N70571, N24921, W04529, AA648488, AA576689, AA857397, AA452806, AA016215, AA843067, AA021506, AA834369, AA946685, R74086, R47997, AA887520, Z17365, AA450285, AA037649, AA805193, R53996, AA749374, AA736873, AA865979, AA932132, M85870, AA515596, AA936679, AA716202, AF176069, AF177345, and AF177346.
HMSMN26	8185	861345	1 - 489	15 - 503	W01688, AW271556, T92856, AL008627, AC005295, AC003109, AC005003, and AL133485.
HMSLNH07	8186	953390	1 - 168	15 - 182	AA483479.
HMSKQ08	8187	861372	1 - 513	15 - 527	
HMSKH24	8188	495770	1 - 562	15 - 576	
HMSJX84	8189	783032	1 - 484	15 - 498	H10256, T16964, and F07075
HMSJW48	8190	852496	1 - 2155	15 - 2169	AA411943, AW195769, AL020989, AL034451, AC004129, AL109956, AC003001, AC006143, Z99571, Z83841, AL033397, AL109733, AC006924, Z96811, AL1049859, Z78022, and Z83822.
HMSIU80	8191	775416	1 - 546	15 - 560	T87122, T77586, and W03662.
HMSIQ40	8192	954003	1 - 380	15 - 394	N21479, AL133872, AL167354, AL120368, N74537, W56424, H99653, AA297666, AW341978, AA365042, AH73995, AL033842, AA503298, AL073373, N57365, AL561060, AA833896, AA833875, AA832444, AA765925, AA482953, AW020150, AA136122, AW070892, AA503119, AC008041, Z82203, AC007285, AC007542, AC005529, AL049557, AF207550, AC005081, AP000497, AC006312, AC005015, AC004859, AC006441, AL049758, AC005971, AL049709, AF196779, AL080243, AL021707, AC005037, Z84484, AC002477, AL031005, AC005914, AC004929, Z98304, AP000692, AL121603, AC003689, AC002312, U47924, AL021394, AL049843, AC004938, AF109907, AC005519, AL049832, AC003982, AC005527, AC006210, AF111168, AC006101, AC006120, AC006013, Z98946, AP000510, AF111169, Z84469,

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					AA190926, and AA731652.
					AA286875.
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HMSI072	8193	463884	1 - 256	15 - 270	
HMSI043	8194	715274	1 - 50	15 - 64	
HMSIM02	8195	920070	1 - 1079	15 - 1093	
HMSJL53	8196	921263	1 - 420	15 - 434	
HMSJL72	8197	495774	1 - 569	15 - 583	
HMSI778	8198	772846	1 - 461	15 - 475	
HMSID56	8199	868168	1 - 454	15 - 468	
HMSIZ49	8200	973806	1 - 633	15 - 647	

				D59610, AA305578, AW177733, AW179018, D80378, D51022, C14014, AW178980, AA514188, D51060, D80248, D80522, AW378525, AW352117, AW178911, D80241, D80251, AA514186, D80133, AW178906, AW352163, AW178914, AW367967, AW178774, AW177728, AW378543, AW10186, C75259, AW178983, T48593, AW360834, AW178781, AW058856, AW177723, D80268, D80302, AW378540, D80439, C05695, D80247, D80134, AW352120, D80132, D51097, D58253, D51103, AW178986, AW177734, AW367950, D80157, D51759, F13647, T11417, AW378533, C14227, D81111, D80064, C06015, D58246, D45260, D59503, AW378542, AW378539, D58101, AW360855, C03092, AA514184, H67854, AA285331, H67866, AA809122, A1525923, Z17814, A1557751, A1558580, T03116, A1525917, D59317, D80258, D80314, D80014, A1557774, A1525920, A1535686, A1535959, A1525227, A1525913, A1525925, D89785, X67155, A67220, D26022, AR018138, A25909, A78862, A84916, A62300, A62298, Y17188, D34614, AJ132110, AB028859, AR008278, Y12724, AF058696, D88547, X882626, A94995, I50126, I50132, A26615, AR052274, I50128, I50133, AR008443, AR016514, AR025207, AR060138, AR066488, A45456, Y09669, A82595, A30438, A43192, AR038669, AR060385, AB002449, AR066490, AR066487, I18367, D50010, AB012117, A70867, A63261, Y17187, X68127, AR008408, AR062872, A85396, AR066482, AR016691, AR016690, Y46128, A44171, AR060133, D13509, A85477, A64136, A68321, D88507, I19525, A86792, X93549, I14842, AR054175, AF123263, AR032065, AJ000347, and AR008382.
HMSIU04	8201	465835	1 - 815	15 - 829
HMSIU74	8202	765600	1 - 365	15 - 379
HMSIU74	8203	699241	1 - 306	15 - 320
HMSIU74	8204	686663	1 - 326	15 - 340
HMSIU74	8205	669671	1 - 339	15 - 353
HMSIU74	8206	920079	1 - 390	15 - 404
HMSIU74	8207	615218	1 - 339	15 - 353
HMSIU74	8208	935151	1 - 1310	15 - 1324
HMSIU74	8209	967007	1 - 324	15 - 338
HMSIU74	8210	753038	1 - 499	15 - 513
HMSIU74	8211	495778	1 - 265	15 - 279
HMSIU74	8212	967068	1 - 503	15 - 517
HMSIU74	8213	717808	1 - 357	15 - 371
HMSIU74	8214	709471	1 - 723	15 - 737
HMSIU74	8215	741834	1 - 1336	15 - 1350
HMSIU74	8216	959461	1 - 383	15 - 397

HMSHG06 HMSHE81	8217	935496	1 - 412	15 - 426	15 - 869	A1873505, and A1868211. A1047194, R30808, A1127970, R21308, W49550, H11154, AW059635, AA133838, T96201, A1346495, AA046957, R52207, AA338045, W20506, T79356, AA344786, AA063363, W37522, R60470, R35905, T31941, AA203250, W68832, AA776637, AA340352, T34581, T35500, AA075388, T34053, AA337298, T99002, R11376, T17786, Z45899, T35531, H93460, F12241, T72052, T65262, U46386, T35164, AA374730, AA228152, N99666, R60632, N44853, W05464, W38978, AA171804, AW372268, T18906, AA094785, AA707543, R32548, R82030, AW372267, T40014, W16937, AW363301, AW392423, AW161265, R31331, AA093953, AA313024, AW352224, AF062483, AF034546, Z98742, AF062482, and AL078596. T79224, T79733, A1878808, A1878839, AW160501, W27440, D59610, AW361175, T03269, D80241, D80193, D59502, D58283, D80166, D80195, D59927, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80038, C14429, D59889, D80188, D80022, D80219, D59275, D81030, D57483, D80269, D80038, C14429, D59889, D59787, AW178893, D80366, D50979, D50995, D80164, D80024, D80378, D80045, D51250, C14331, C15076, C14389, C14014, AW378532, C75259, D51060, AW177440, AA305409, AW179328, AW178775, A1905856, A1910186, AW352158, D81026, D80134, AW177501, AW178762, AW177511, F13647, D51097, D51022, D58253, D80949, D80522, AW360811, AW176467, C14227, AW352117, AA285331, AA305578, D51079, D81111, D59695, AW375405, AW378540, AW179023, AW377671, AW179332, AW360834, D80251, D52291, AW366296, AW360844, AW179220, AW360817, D80248, AW375406, AW378534, AW377672, AW178905, AA514188, AW177731, AW179024, AW179019, AW352171, AW377676, D80064, AW352170, W179329, AW178907, AW179020, AA514186, D80133, AW177733, AW178906, AW179018, AW177505, AW360841, AW178909, AW177456, AW178980, AW378528, AW178908, AW178754, C05695, AW367967, D80268, AW179004, D80302, AW178525, AW352174, AW178774, AW178911, AW378543, AW352163, AW177728, AW157751, D80014, AW352120, D80132, D80439, D80247, T03116, AW178781, T48593, AW178983, T11417, AW177723, AW367950, AW378539, D51103, D80157, D51759, A1557774, AW178986, D80258, C06015, D45260, AW177734, AW378533, D80314, AA033512, C03092, AA809122, AW378542, H67854, H67866, AW360855, A1525917, A1535830, Z17814, A1525923, D58246, D59317, C14975, AA514184, D59503, C14973, C15221, D59474, A1525920, A1535686, A1525913, D58101, C14046, A1525227, A1535959, C05763, AB020721, X67155, Y17188, A78862, A67220, D80785, A84916, A62300, A62298, A1132110, D34614, D26022, A25909, D88547, X82626, AR025207, AR018138, AR012117, X68127, A0508696, Y12724, AR008278, A85396, AR066482, A44171, A85477, I19525, A86792, AB028859, X93549, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, Y09669, AF135125, A30438, AR066488, A82595, AR016514, AR060385, AR060138, A45456, AR066487, A26615, AR052274, A43192, A43190, AR038669, AB002449, D88507, AR066490, A70867, D50010, Y17187, I18367, AB033111, AR008408, A63261,
	8219	662265	1 - 855	15 - 869		

HMSHD80	8220	882700	1 - 1135	15 - 1149	
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HMSHB81	8221	777946	1 - 682	15 - 696	W07507, N81144, C01673, and AC007298.
HMSGX86	8222	793163	1 - 310	15 - 324	
HMSGF56	8223	733562	1 - 365	15 - 379	T87391, and R94130.
HMSGF54	8224	730823	1 - 555	15 - 569	AA075407, and AA829024.
HMSGF51	8225	761922	1 - 573	15 - 587	AL628560, AL628570, W52594, H15987, AA314350, AA081556, AA449562, W48833, AA340229, W19356, H16913, AA309056, R18554, AL460069, T80286, AA384328, AA318911, R12855, and AC006033.
HMSGD24	8226	677337	1 - 416	15 - 430	N62538, and N62572.
HMSGC85	8227	783608	1 - 825	15 - 839	AA583378, AL526112, AA583325, AA583278, AA583589, AA585430, AA585329, AA283312, AA585439, AA585116, AA585098, AA585356, AL525306, AA585453, AA585420, AA585101, AA585327, AW366296, T26367, T48593, AL541402, D78224, D57491, T18597, C15406, Z92957, AA585198, Z32887, D59751, C15069, Z32882, D53161, AA585155, AL526205, D54850, R45895, D61185, AA585351, AL526169, Z33559, D51433, AL557718, AL525216, AL541356, AL557262, AL541365, AL557864, D59458, AL526078, AL526146, Z36724, AL535660, D51413, AL525500, D50992, AL526016, AL526158, AL526140, AL546855, AL557740, AL535639, Z28355, AA486970, AL557809, AL557731, D54897, AL541535, AL546831, AL421391, AL541013, AL541492, AL541205, AL525586, AL557533, AL525168, AL557727, AL540903, AL546971, AL526187, AL536138.

HMSFY63	8228	745230	1 - 448	15 - 462	AL526184, AL526176, AL541517, AL557084, AL526117, AL526024, AL557317, R28965, AL541516, AL557852, AL541515, AL541034, AL547250, AL557758, AL526191, AL557408, AR017826, AR013358, AR031365, AL131952, AF135243, A85395, A85476, X82786, AB005666, AR037157, A25909, AR062871, AR008429, AR060134, A70872, X55499, A70869, A70899, A94995, X93517, AL007320, Z79435, AR038669, A84774, A44281, I50122, U87250, AR068047, A84773, M60510, A84772, A84776, A84775, AR060137, AR060142, A91750, U87134, AL119, AR029417, A83076, X84816, Z79475, A91667, A91666, U79666, A30438, AR028672, AR038855, AR050070, AB005559, A62298, A82595, A82593, U89315, AR060057, A1009991, Y096689, I32384, A1012010, AF213384, AF006072, U94592, L36913, U85196, AE000661, Z30183, Z31700, A44216, AL035462, and AC006515.
HMSFY73	8229	888326	1 - 170	15 - 184	W96346.
HMSFY08	8230	959773	1 - 408	15 - 422	AL016389.
HMSFY23	8231	919890	1 - 1974	15 - 1988	AA508809, AL038606, AA574442, AA879053, AL678785, AL244127, AL805607, H05940, AA904275, AW069227, AA610509, AA191418, AW271917, AW341978, AL57020, AL885572, AW299781, AL753113, AA635368, AL623764, AL048607, AA180775, AW157492, H80203, AL634187, AL625604, AL040051, AL270524, AL251576, AW089950, AW338370, AA225406, AW270256, AW068316, AL051037, AL040054, AL783911, AL559645, AL583466, AA720732, AL205181, AL590458, AW274191, AL306232, AL768952, AL270476, AL061313, AA601986, AA533176, AA749235, AA525253, AL457313, AL869786, AA634786, AL569510, AL635028, AW272294, AL634691, AA777986, AW419389, AA382554, AL431513, AL590499, AA657835, AW188662, AW157005, H53168, AC005694, AL034420, Z85987, AL031005, AC005527, AC005682, AC005940, AL050318, AL096791, AC006501, AC005736, Y18000, AC002310, AP000503, AC006449, AC002538, AC005972, AC002059, AC003029, AC008984, Z97054, AC009516, AC006468, AC005778, AL035683, AC007684, AC005500, AC002314, AL049694, AP000088, AL031311, AC004019, AC006285, AP000512, AL133448, AC002316, AL022316, AL121653, AL049553, AP000692, AL050332, AC005529, AP000359, AP000152, AC004253, AC007731, U47924, AC005520, AC005399, AL021397, AC005755, AC005041, AC004531, AL035413, AC003982, AC002073, AC005180, AC007919, AP000248, AC004112, AC000025, AP000133, AP000211, AL035079, AC007999, AC005231, AC005874, AL134471, AC000052, AC002470, U80017, AD000099, AC005212, AC007055, AC007993, AL0996701, AC009247, Z98036, AL133355, AC005899, AC008012, AF207550, AC006130, AC006017, AC005722, AL050312, AL034555, AF200465, AL031685, AC006211, AC005482, AC002115, AP000555, AF134726, AC007387, AB023049, AC007308, AC004477, AC006480, AC004985, AC004520, AC005041, AL080243, AC002312, AC005102, AC005049, AC007371, AC004913, AP000553, Z68870, AC005255, AC002350, AC002301, AC002543, AP000502, AC004865, AC004466, AC007845, AL117258, AC005225, AL022721, AC006512, AC004526, Z86090, AC004832,

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HMSFN08	8232	959774	1 - 294	15 - 308	AL611315.
HMSFN08	8233	753635	1 - 137	15 - 151	
HMSFN13	8234	384695	1 - 209	15 - 223	
HMSFN08	8235	960147	1 - 530	15 - 544	T87975, T78968, H75882, AA186627, AA157874, AA155657, and AC005632.
HMSFN08	8236	706366	1 - 352	15 - 366	H60137.
HMSFN13	8237	842040	1 - 186	15 - 200	AA452398.
HMSFN08	8238	751865	1 - 221	15 - 235	
HMSFN08	8239	660654	1 - 262	15 - 276	H48662.
HMSFN08	8240	909997	1 - 417	15 - 431	AA937295, AA749017, AL961060, AW296060, AL560436, AW137661, AU952999, AA837074, H14097, AA058658, AA058632, D17577, AB023656, AF131865, and AF090190.
HMSFN08	8241	968435	1 - 152	15 - 166	N56866.
HMSFN13	8242	559991	1 - 315	15 - 329	
HMSFN13	8243	574950	1 - 339	15 - 353	H51539, AL18853, AW008155, AL915439, AA113960, N25429, AL539019, AL090837, AL269976, AW183489, AA705828, AW028222, AL085311, AW057893, AW025905, AL187383, AA627364, AL807821, AL807831, AL134858, AA570019, and AC005786.
HMSFN08	8244	927804	1 - 352	15 - 366	AA526542, H38817, R54896, H25626, AL174535, AA516247, R71981, AA641112, AA745524, AA744001, AA524616, AA506744, AA744272, AA744455, AA745588, AL624990, AA743966, T34066, AA729470, AA779667, F07193, AL683294, H97358, AA364869, AA804625, AA830910, AW246879, R91911, AW238325, AA700569, AW081359, AL863246, AW102955, AA035676, AA251117, AW062759, AL241637, R13151, AL123488, AL636306, AL024782, AL188049,

			AA683091, AA350406, AB357551, AA215585, AA077619, AA158549, T07346, AL678867, AA047849, T10218, N47855, W327852, AA158550, AW188487, N52323, N33851, AW070476, AA364488, F13749, AL135643, AC329321, AL289050, A1751162, A1762288, AL284092, A611440, A612141, AA483141, AL696793, AA516058, AA654627, T11542, A1730336, AA779018, AA515440, AA572975, AA321595, AL1565582, AA457482, AA650244, AA439839, AA975915, AA456422, AL031650, AL049713, U73331, AP000345, AL009179, AP000344, AL133353, AC006958, AP000245, AL022578, Z93020, AC004653, AL031651, AC004548, AP001054, AC006121, AC006948, AC005969, AC003080, D84394, AC004675, AF088219, AC003692, AC005582, AC006539, AL021939, AC004453, AC004234, AC004765, AC005703, AL031346, Z83839, Z98949, AP000319, AC002476, AL135744, L35930, AL035667, AC003043, AC005358, U92894, AC004258, AC006047, AC005330, AC004851, AP005059, Z94056, AL023803, L44140, AC007292, AF031078, AF030876, AL049871, AL020993, AC004386, AL096701, AC004656, AL031594, AC000029, AP000356, AL049744, AC004882, AC005529, AC006000, AC006511, AP000555, AL049849, AL049641, AL022326, AC006019, Z99570, AL021578, AP000120, AP000167, AP000052, AC007388, AC005300, U07563, AC007151, AL049793, AC003072, AP000068, AC002483, AF001548, AC007736, AC009178, AC007917, U47924, Z83843, AC004913, AC005031, AL008726, AF037338, U80017, Z82245, AB014077, AC005525, AC005788, AC004209, AC006139, Z73420, AC006130, AC005365, AP000514, AL031676, AC005899, AC003003, AL035419, D00591, AC002559, AL050318, AL034551, Z83840, AC003957, Z82170, AC005550, AC005399, AC007387, AP000301, AF039906, Z69710, U73638, AC005253, AC004149, AP000114, AP000045, AL031775, AC003029, Z98884, AC005736, AL096791, AC002463, AC005944, AC006930, AC005578, AC003065, AC004159, AC005033, AC004562, AL035460, AB003151, AP000688, AC006312, AC006449, AC006530, AF123462, AL021394, AC005542, AL133243, AL035423, AC004887, and AL023694.
			AL694133, and AC005661.
			AA846610, W32521, and AL089044.
			R8918.
			AL090721, R98008, AA992295, and AL024933.
			Z54334.
			AA213710.
			H80947, H54099, and AA513418.
			AA214194, and AL031709.
			AC003091.
			T93073, and AL826311.
			AA258700.
			AA280755.

HMSBU24	8257	678709	1 - 757	15 - 771	T147576, T147577, and AF146689.
HMSBO95	8258	796724	1 - 363	15 - 377	AA010247.
HMSBM92	8259	792970	1 - 127	15 - 141	-
HMSBI82	8260	780229	1 - 176	15 - 190	-
HMSBI56	8261	733772	1 - 71	15 - 85	AL120007.
HMSBH85	8262	784576	1 - 448	15 - 462	H69907.
HMSBH08	8263	958802	1 - 1311	15 - 1325	AW378532, AW089016, AA593661, AL123488, AL044701, AA493808, AL828721, AA307623, AA935827, R72363, AL152436, AW152439, AA584360, AW057760, AA654705, AA676592, AL453476, AT791659, AT733523, H71678, AL567676, AA493245, AL1521525, AA425283, AA135761, AA640305, AA526643, AA829565, AL984168, N32081, AL434686, N29829, AL609984, R22196, AL350189, W04238, AA720582, AL159799, AL345566, AL697235, AW020150, AL860423, R2915081, AL242614, N27362, AA128511, AL434103, AA526542, AL697239, AL610012, AL583532, AA487209, AL697242, AL609974, AA631915, AL342863, AL086603, AA482682, AA577706, N23099, AA635135, N94115, AA640104, AT798493, N32080, AA747757, AA584183, AL280535, AA303002, AA807704, AL537368, AA015948, AT791426, AT732473, AA525112, AL521042, N32094, AA297776, AW272606, AL682899, AT754064, AL679730, AW072963, AA832145, AA054055, AA613761, AT719564, AW380335, AA564591, D34614, AC007546, AP000688, AL008710, AL035413, AL109952, AL049631, AC007388, AC003108, AC000353, AC005305, AC005921, AC002430, AC007565, AC006011, AL049636, AC007384, AC003002, AC005516, Z84474, AL133246, AL031229, AC006121, AC004008, AC003962, Z93024, AC005003, AC005088, AC005619, AF109907, AL022326, AL022237, AL049872, AC007283, AC005839, Z93241, AC002544, AL031666, AC007421, AL031602, Z95116, Z95114, AF141309, AC004663, AC002310, AC005399, U78027, AL022322, AC009247, AL049743, AC007227, AC004662, AP001054, AC007207, AL035422, AF107045, D28126, AL022398, AL035462, AL049869, AL034451, AL031297, AC005593, AC007151, AC002128, AL031681, AC005328, AC004408, AC004150, AC004699, AL031311, Z86090, AF024533, Z84469, AC005231, AC003043, AL022721, AL133163, AL133241, AP000049, AC003667, AL035684, AC000025, AC005015, AC004477, AC004099, AF060568, AC002316, L34294, Z92546, AP000311, AC005049, AC006505, AL121578, AC003112, AC007559, AC005527, AC001234, Z97054, AP000116, AC002549, AC004755, AC005899, AP000555, AC004009, AF196972, AL031782, AC006013, M63796, AC005082, Z93023, AC004887, AC004920, AC005913, Z73359, AL096701, U93305, AP000497, AC004491, AL034379, AF196779, AF207550, AC005255, AC002538, AL049757, AC004448, AC004973, AC007899, AC007536, AF000359, AF000689, AC006111, AP000353, AC006017, Z83844, AC002407, AC002039, AC006449, AC004814, AC005377, AC004079, AL172558, U07561, Z97353, AF184110, AC005971, AC007386, AL109627, AL096767, AC005754, AC005624, AC004893, AC005529, AF000233, AF134726, AC007057, AP000289, AP000147, AC006101, AC006236, AC005369, AF000042, AP000042,

				AP000110, AC006277, AC006125, AC004230, AC006409, AL022311, AF047825, Z980336, AC005663, AL109980, AD000092, AC002300, AC004890, AC005180, AC004805, AL021878, AC002312, AC004882, AC006162, AL109963, AL121655, AC004587, AL031286, AC006120, Z95113, Z98304, AC004685, AC005952, AC002357, AC008119, U63630, AL021393, AC0005696, AL020993, AC005940, AC005214, AC004834, AC005763, AC007226, AC006486, AF053356, AC005484, AC008018, K00061, AC002106, AC002410, AL080243, AC006115, AC005031, AL049793, AL033659, U66062, AL031121, AF217403, AL132777, AC007934, AC002481, AL031777, AC002476, AC002492, AL050321, AL008635, AC007308, AB017602, AC006077, AP000085, AL109628, AL078581, AC007199, AC000094, AF130249, AC000085, AL031118, AL035694, Z98016, AC005081, AL022316, AC007051, and AC005280.
HMSBH07	8264	954457	1 - 448	15 - 462
HMSBF92	8265	582654	1 - 905	15 - 919
				AI225156, Z98096, and U51560.
				Z99774, AC007073, AP001051, AC007016, AP000014, AL009179, AL096772, AC002375, AC005347, AC006060, AC005279, AC008123, AL008710, AP000155, AL109620, AC005736, AC007240, Z82222, AC005905, and AC006167.
HMSBC31	8266	960021	1 - 552	15 - 566
				R08621, R09445, T83341, R12764, AL868387, AW168691, R32828, R66453, AI572495, R26443, AL479182, AL745312, AW272841, AL376897, AL559339, AL188827, AL128920, AL188867, AA056017, AW243942, H98609, AL801490, AA599935, AL241017, AW023649, AL1879926, AW264809, AL432465, AL022932, AL042229, AW294405, AL638167, AA563714, W46846, AL1619816, AL453457, AL215121, AL373123, N63964, AL245268, AA972323, AA709398, AL122927, AL336525, AL273714, AA599488, AL862846, AL128566, AL950246, AW236025, D58140, AL951485, AL742100, AL913610, AL873481, AL679476, H47624, AL365294, AL161025, AL868878, AW192014, AL094370, AW295145, AL4778934, AW303589, AL247403, AL947308, T90383, AL457642, R62344, AL346810, AA864840, N46424, AL655638, AW082317, AW305262, AW207683, AW084022, AL274053, AA490456, AL973108, W46841, Z40817, N20960, R91085, AW129403, H58229, NS2900, AA034024, AL916541, C21345, AW152560, AL135710, AL913607, AA885112, C16453, R56284, and AL342372.
HMSBA43	8267	715699	1 - 364	15 - 378
HMSAV84	8268	781872	1 - 405	15 - 419
HMSAV65	8269	747792	1 - 393	15 - 407
				H63639, and AA805570.
				H62879.
				AA524821, AL180370, AA083046, AA224525, AA181758, AA837677, AA526787, AA935988, AA493695, F36273, AL872020, AA757797, AA533303, AA580808, AA846953, AL584186, AL042213, AL653375, AL859742, AA477122, AL933534, AA551503, AL583283, AL243584, AA482806, AA652600, AA621596, AA782304, AL732547, AW075511, AW193265, F18619, AW168618, AA584167, C17734, AA992337, AL270117, AW438643, AL345654, AA834792, AA583898, AA847499, AA501821, AL908381, AA581903, AL550211, AL679782, AA483223, AA490183, AL715991, AA581076, AL049634, AL270702, AA935100, D58349, AL022329, AA009516, AC005089, AC006211, AC005412, AP000056, AP000171, AL132712, AL080243, AC005484, AP000330, AP000043, AC008115, AC004686, Z93930, AC005081, AC004491,

				AC006014, AL0496701, AL049569, AL023494, AP000553, AC003109, AC005736, AL034549, AC005231, AC006001, AC005488, AC005280, AC005756, AC002365, AC004477, AP000344, AC004263, AL021878, AC006312, AC006032, AC004799, AL049759, AC004895, AL023575, AC004167, AL008725, AP000111, AL031846, AC004935, AC005335, AC005829, AF139813, AC002470, AL133246, AC008372, AF109907, AC016025, AL031685, AC000583, AL137330, AC005071, AL031295, AC006449, AL021546, AL020995, AC005899, AC005783, AL022721, AC005914, Z98950, AP000065, AC004771, AL009179, AC004383, AC005520, AC005618, AC004858, AF047825, AC005031, AC005288, AL035249, AC005837, AL049779, AF091512, AD000092, AC004876, Z99716, AC006111, AC007690, AC008040, AC006050, AL121603, AC004953, AC005971, AL031733, AC006371, AL049766, AL035681, AC006241, AL133245, AC005088, AL031597, AC005746, AP000124, AL022722, AP000359, AL031276, AL003147, AC005839, AL049709, AL009181, U80017, AC002565, AP000090, AC007899, AL022237, AL079340, AL049829, Z97056, AC003108, AC004671, AC002310, AF001549, AL135744, AC005529, AC007226, AC005069, AF196969, AL009172, AC004019, AC007151, AC007182, AC002404, AC005261, AL078463, AC006126, AL035460, AF196970, AL135960, AL131016, AC007666, Z49236, AL050341, AC003030, AC007030, AC005332, AC006117, AP000556, AC004955, AC004975, AC006064, AP000347, AL035089, AC000070, AC002316, AC005037, AL022302, AC002312, AC005324, AC002476, AC005049, AC005225, AC007227, AC004638, AC004605, AC005632, AL031003, Z86061, AC002564, AC004970, AP000557, AC006116, AL022320, AC005578, AC005180, AC006317, AC008018, Z98941, AC007453, AC004253, AP000513, AP000552, AP000459, AL049694, AL031407, AC004149, AT024533, AC004253, AL031680, AL031662, AC006965, AC004841, AL096791, AL049776, AC005330, AL021707, AC010206, U91323, AF003626, AC004776, AC005015, AL035494, AC002517, AC005940, AC005565, AC006017, AC007376, AC005696, AC004783, AC000052, AC007919, AC002429, AC006480, AF055066, AC005920, Z86062, AC004231, AF031078, Z93017, AC006639, AC004797, AL022316, Z82244, AC002133, AC007934, AC000118, AC006441, AL293922, AC005291, AC008009, AF217403, AL117344, AC007326, and AF196779.
				AA096051, AL911368, AL809060, R37329, and AW292043.
				AA054495, and AL078593.
				N36504, and W03426.
				AA678143.
				R09134, and AC0004897.
				AL492018, AW444713, AL760623, AL347343, and AL917642.
				T87271, AL56228, and AL683496.
				AL948473, W87704, AL610102, and AL813741.
				RL6464, T80874, and AC006559.

HMMCD23	8302	675720	1 - 499	15 - 513	R27937, and Z97054.
HMMCA11	8303	966677	1 - 448	15 - 462	AA677566.
HMMCA08	8304	958980	1 - 424	15 - 438	AA610438, A1571512, AW074207, AA652057, AA649642, N23649, AA125788, AA548702, AA73208, AA55260, T40617, AA095511, AW088058, A1554289, AA557879, N23874, A1246340, A1469166, AW069427, N73083, A3317656, A1038990, F03525, AW406447, N26061, A1281903, AA687182, AA576336, AA812139, AW14151, A1801482, AA338522, AA301813, AA181494, H37777, T07324, AA552856, W25284, AA653327, AA594725, AW739568, A1754658, A119123, A744827, AA832181, AA074458, A143703, F34999, N70337, H63991, AA526193, AA629415, AW408063, A629407, N53152, T06652, AA369477, AA317170, A138242, A1708005, AA613345, AF087510, AF006501, A1031587, A1031133, AC005694, Y18000, AC005529, A132712, AF007544, A121577, U86136, A1109611, AC005375, AC016025, AC016026, AC006080, U55182, A1035685, AC005310, A1031228, AC006057, AC006505, AC002316, AC005994, A1049690, AC007227, AC005324, AC007450, A8016897, A1022238, Z82976, A1080242, A1023575, A1008583, AC004820, AC007226, AC004526, AP000073, AC005569, AC005364, AC004232, AC020663, AC002115, AC004408, U51559, U63313, AP000432, A1121782, Z95126, A1136504, AC006536, AC009498, U41384, AC004944, A121580, AC005030, A1049839, AC005175, A1050343, AF003530, AP00153, AP000012, A1031577, A1008071, A1049636, AC004492, Z15025, Y14768, AP000505, A1096712, AFI29756, AC005940, Z98946, AC005808, U95740, AC005520, AP000350, AC007461, A1049779, A1049776, AC003983, AC003102, AC006323, AC005726, Z68344, AC005785, A1091512, AC003103, AP000692, A1022578, AC002080, AC005695, AC003684, Z99716, AC005500, AC005872, A1096734, AFI54840, A1096765, Z84723, Z46773, AC005346, Z68756, AC005262, A1049741, AC004752, U07563, A1022320, A1096776, AC005998, A1022163, AC006486, AC003007, L78833, AC002310, A1109984, AC006543, and A1078474.
HMMBZ18	8305	666192	1 - 746	15 - 760	AA701580, AA701569, AA828646, AA776372, T87907, AA811226, R07726, R93731, AA761770, A1240497, T88001, R06363, R06362, R08543, and AA810943.
HMMBZ05	8306	566870	1 - 654	15 - 668	AA441997, A1885572, AW080811, A1754658, AC005803, AC007436, AC002221, AC004905, AC004815, AC005223, AC006512, AC004616, AC004963, AFI11169, AC002425, X75335, X54175, AC006948, X54181, AFI96779, AC005784, X54178, AC006511, A1006023, AC005237, AC005067, N87919, AF07550, A1035072, AC004417, AC004858, AFI109907, AC005988, Z97630, AC003688, AC007360, AC007546, AC005971, AC007899, AC002551, AC005521, AC007237, AC007731, AC007263, AC005500, A1003147, Z68162, AC006160, AC007786, AC006255, AC002553, AF015148, AC005755, AC005288, AC005284, A121653, AC006011, AC005531, AC009516, A132712, AC006480, A1049780, A1034548, A1049709, A1022316, A1136504, AC002558, A1009181, A1049839, AC002544, AC005399, A1133448, A1022302, AFI17829, AC004253, AC006501, AC006312, A113353, A1031311, A1022329, AC005759, AC004643, AC004019, AC003664, Z85986, AC005786, AC006079, AC000052,

AC004263, AC004033, U52111, AL1109627, AC006211, AC004034, AL049759, AL080243, and AC005306.			
AL220476, AL376552, AL935505, AW090719, and AC006504.	15 - 420	1 - 406	916067
AL193575, and AL362923.	15 - 464	1 - 450	958987
H65100, AC0040686, AF201333, and AF081568.	15 - 458	1 - 444	597147
T96528, and AA543014.	15 - 422	1 - 408	746599
AA280370, ZS8990, HT1497, AC005050, and AL031985.	15 - 621	1 - 607	841959
AT754567, AL583446, AL061313, AL436433, AL962030, AL366993, F23264, AW237990, AL909021, AT755214, AT923052, T74524, AT754105, AT754653, AA420546, AA864603, AL254959, AL612142, AL281730, AA515728, AW103406, AA544423, AL106232, AA829036, AA535216, AL583252, AL610941, AW275432, AA469327, AW274191, AA225406, AB26102, AL923451, AL635028, AL801505, AA456924, AL469599, AW243793, AA593661, AA714011, AW151541, AL521525, AL279417, AW271904, AW020088, AT798449, AL251576, AT742729, AW107953, AA825827, AW023111, AL041375, AL984168, AA483606, TA9633, AL291439, AL290405, AL138182, AL537995, AL536858, AL130709, AL249688, T05118, AA570740, AW069227, AL476049, AA524616, AA683069, AL917132, AL674840, AA651639, AL380617, AA608520, AL491765, AW226460, AL814682, AA284247, AL923458, AW328000, AL590485, AW089016, AA937809, NT7915, AT753113, H05940, AC005006, Z98036, AC005004, AC004757, AF196779, AC004386, AL47768, U85195, AC005962, AB000658, AC007298, AP005505, AF165926, AL021154, AC006333, AC006026, AC004466, AP001114, AP000046, AC006312, AL049843, AC007371, AC004106, ZS9586, AL023553, AC004991, AC005261, AC002425, AL031659, AC006942, AC002301, AC002418, Z95331, AC003669, AC004922, AL031680, AC009247, AC005821, AC002316, AL109839, AL035407, AL034548, AL049839, AC005736, AC005039, AL031737, AC005899, AL035387, U96629, AF130343, AC007707, AL034343, AC005378, AC004148, AC000003, AC007731, AC005632, AC005500, AC005280, AC007227, Z84487, AC005274, AL049643, AC003353, AL031283, AP000694, AC007993, AL050318, AC005837, Z98751, AF152363, AC004216, Z98256, AC007686, AL020298, AF031078, AC005220, AL024498, AF030876, AL023879, AL121655, AC004972, AL031848, AC005332, AC002300, AC004000, AL049872, AC007546, AC004033, AP000510, AL049780, Z93017, AC004821, AC004988, AC004458, AC005544, AC006552, AC009516, AC005952, AC004819, AL079340, AL109758, AC003080, AC005598, AC000118, AL117329, AL049856, AC006211, AL022315, AF134726, AC002369, AC005041, AC002426, AL050307, AL078581, AL133163, AC006057, AL121603, AC004796, AC005887, AC007052, AL049712, AL049636, AF053356, AC006354, AC004408, AC004181, AL050348, AC005158, AB023048, AL022724, AC004686, AP000697, AC005095, AC004999, Z93016, AL050346, AC005670, AL019330, AC008072, AL009172, AL022238, AL035659, AL121652, AL080317, AC005535, AC003982, AL117258, AC008115, AL024508, AP000302, AC005844, AF001549, AC005484, AC006017, AC004491,	15 - 645	1 - 631	855930

				AL121840, U80017, AC005971, AC005089, Z84469, AC007617, AC005529, AC006632, AL021807, AL079295, AC005823, AC003041, AC005520, AC005479, AC005399, AF067844, AC005225, AC007308, AC007388, AC004914, AC003663, AL049823, AC004605, AP000210, AP000132, AC000025, AC005562, AC007690, AL035405, AC006101, AF031076, Z98044, AC002553, AC002351, AC004533, AC003109, AC003029, AC002326, AL031280, AL022401, AL021453, AC006530, AC005702, AB003151, AC004020, Z99127, AP000248, AC005011, AL009031, AL021579, AL049569, AL122020, AC003962, Z93930, AL050312, AF196969, AC006084, AP000555, AC005082, AC005057, AP000152, AL049690, AC006581, AL033504, AL133448, AC0012384, AL033397, AC004996, Z97630, AC002432, AC006511, AC005874, AF134471, AC003037, AF095901, AL117337, AC002352, AL031594, AC004928, AC004531, AF030453, AB020868, AC007774, AL008710, AC006062, AP000240, AP000042, AL121838, AC004526, AC005527, AL122126, AL136295, AF017104, AC002312, and AC002404, N24829, R56828.
HMMBQ08	8313	958988	1 - 343	15 - 357
HMMBQ49	8314	722753	1 - 439	15 - 453
HMMBQ28	8315	686318	1 - 344	15 - 358
HMMBN76	8316	769890	1 - 482	15 - 496
HMMBN71	8317	973436	1 - 458	15 - 472
				Z99396, AL119484, AW392670, AL119439, AW372827, AL119391, AL134530, AL134519, AL119319, AW384394, AL119522, U46347, AL036418, AL038837, AW363220, AL119497, AL119457, U46350, AL119324, AL037051, AL036725, AA631969, AL119363, AL119443, AL119483, U46351, AL119355, U46349, U46341, AL119341, AL119335, AL119396, AL038509, AL036858, AL119444, AL119418, AL039074, AL119496, AL036924, AL037205, AL134524, AL043003, AL042614, AL119401, U46346, AL042544, AL134525, AL037639, AL134524, AL039564, AL039085, AL037094, AL039156, AL134518, AL037082, AL042984, AL042965, AL042975, AL039108, AL039109, AL037526, AL039128, AL119399, AL036196, U46345, AL12137, AL134538, AL043019, AL042542, AL12132, AL042551, AL036767, AL037085, AL038447, AL043029, AL036190, AL042450, AL037077, AL036268, AL038520, AL038851, AL036238, AL037615, AL119464, AL036774, AL037178, AL036998, AL036733, AL036719, AL037027, AL036765, AL036679, AL036191, AL036158, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AR026436, AR043113, and AR054110.
HMMBNS4	8318	729352	1 - 384	15 - 398
HMMBNS8	8319	781010	1 - 228	15 - 242
3				H73690, and AFI52365.
				T95450, W03267, and AC004112.
HMMBLS5	8320	731523	1 - 438	15 - 452
HMMBHL64	8321	746402	1 - 337	15 - 351
HMMBHF86	8322	812597	1 - 156	15 - 170
HMMBHF72	8323	761389	1 - 304	15 - 318
				T78390, and AL031714.
				H56329, AA857240, AA331858, AA3314410, AA375100, AA356819, AA331462, AA295347, AA232345, AA242864, AA081834, AL037869, AL037847, U91327, and AF026166.
				T91720, and AC007016.

HMMBF41	8324	711731	1 - 492	15 - 506	T40112.
HMMMAV44	8325	716396	1 - 628	15 - 642	T86763, T86671, F05025, F05024, AL109758, AC005089, AC004770, AF053356, AP000555, AC002400, AL032821, AC003010, AC004938, AC002302, U89335, AP000512, AC005067, AC005412, AC008038, AF001550, AC006480, and AC005529.
HMMMAT23	8326	973437	1 - 572	15 - 586	T64273.
HMMMAT08	8327	959005	1 - 519	15 - 533	T64273.
HMMMAST3	8328	764280	1 - 583	15 - 597	N47781, AF132466, AA133879, AL820506, T70099, AL821351, T70032, N50894, and AC006599.
HMMMAR20	8329	669523	1 - 648	15 - 662	AA968696, AL0017739, T71248, R85439, AL343336, AL168580, and AL169940.
HMMMAQ70	8330	757070	1 - 428	15 - 442	W04436.
HMMMAO06	8331	935087	1 - 643	15 - 657	AL241754.
HMMMAL71	8332	760206	1 - 412	15 - 426	AA449997, AL0079734, AA502207, AF733856, AL063552, AL041375, AA297666, AL859438, AL279417, AA714110, AF732483, AW237905, AL366993, AA715814, AL049630, AL281561, AL053696, AL491765, W23546, AA410788, AA508809, AL047349, AL783911, AL284045, AL908093, T74524, AA704393, AL912401, AL046519, AL821881, AL753113, AL821918, AL281818, AW080215, AA669238, AL114733, AL133552, AL251576, AW243793, AA558366, AW340905, AL962030, AL054244, AL440117, AL133377, AA609834, AA384241, AW193493, AA483606, AA515138, AL620585, AW419389, AF753672, AA904275, N23913, AL936229, AA507343, AA720732, AA315361, AL620992, AA570740, AL119909, AL270177, AA535216, AL753365, AL612142, AW167154, AW407632, AL961983, AL417469, AA632765, AA503018, AA665021, AL053784, AL066646, AL128511, AL992562, AL583466, AL267269, AW089625, AL597832, AL801363, AA513551, AL380617, AA568204, AA133013, H07953, AL904211, AL244985, AL284092, AL814682, AA557982, AW270619, AA084766, T05118, AL537995, AL130709, AL267356, AL267450, AA225392, AL306232, AA64090, AA610381, AW192373, AL267884, AL865213, AA533408, AW089016, AA730305, AC006312, AF030453, AC005088, AL049569, U80017, AC004851, AC005740, AC005899, AC006211, AC005081, AC005015, AC005225, AF196972, Z8384, AC009247, AF196779, AC005874, AF134471, AL096701, AC0020663, AC004883, AC006511, Z83846, AC002425, AC005231, AP000558, U89336, AP000694, AC006017, AC005914, AL049795, AC005529, AC005086, AL121653, AL022163, AC005082, AC007226, AC006538, AF001552, U95740, AL035086, AL031846, AC005722, AC005527, AC004099, AC004491, AL049653, AL023883, AC005565, AL050318, AC004811, AF053356, AF001549, Z93023, AL096791, AP000692, U47924, AC006115, AC002483, AL022238, AC006121, AC007308, AC002126, AC006285, AC004876, AC005200, AC005519, AC005702, AC000094, AC006449, AP000557, AF064861, AC007421, AC007057, AC003026, AL020997, U96629, AL031281, AC004858, AC002565, AP000044, AC006006, AL080243, AC002477, AC005089, AC004796, AL049538, AC005358, Z84572, AL009183, AL049830, AL031005, AC005072, AC003982, AF130343, AP000212, AP000134, AP000967, AC004263, AC008115, AC003663, AL034420, AC005730, AL034379, AC006544, AC007384, AL132712,

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HMMAL44	8333	754908	1 - 395	W87482, and T40816.
HMMAL59	8334	738982	1 - 414	AL66920, AL135159, R06121, AW004825, AL683019, AL031120, and AC004854.
HMMAL54	8335	729351	1 - 422	AL246003, D87675, AL121658, AC005763, AC005696, AL031311, AC004804, Z99716, U85195, L44140, AE000658, AC005412, AL022316, AC004890, AF165926, AC005520, AL121652, AC002314, AC002041, AD000092, AL049766, AC005736, AC005180, AL035422, AC004854, AC005049, AL109628, AL035405, AC004491, D88268, AL049764, AC005562, AC005932, AF045555, AP000104, AP000115, AC004972, AC007160, AC005081, AC018633, AB026898, AL049829, and AL096712.
HMMAL44	8336	716407	1 - 411	W86636, AL692200, and AL800445.
HMMAL42	8337	713542	1 - 411	AL132246.
HMMAL35	8338	707278	1 - 291	AA492230, AL890283, AA506952, AL684335, AL983447, U73642, AC005484, AL031848, AC005231, Z84466, AC009247, AC002558, AF205588, AC006241, AC006064, AC005200, AC005544, AC004686, AC006511, AC004491, AL034370, AL133396, AC004805, AL049776, AC005529, and AC007382.
HMMAL30	8339	693545	1 - 137	
HMMAL18	8340	665512	1 - 386	
HMMAL16	8341	661699	1 - 399	AA782338, AP001052, AC006012, AC005736, AL022331, AC005632, AP000558, AC009516, AL136504, AC007688, AC007938, AL008718, AC007731, AC005500, AP000553, Z85996, and

HMMMAK83	8342	781016	1 - 697		AC005255.
HMMMAH61	8343	741662	1 - 437	15 - 711	AA007282, AE698091, AA007283, H78432, R91689, R97591, AI311305, R91688, and AI302599.
HMMMAF92	8344	973971	1 - 618	15 - 451	H40407, AW391548, and AI356524.
				15 - 632	Z99396, AW392670, AW372827, AW384394, AI119335, AW363220, AI119319, AI119497, AI119443, AI119335, AI119363, U46341, AI119483, AI119457, AI119324, AI119496, AI119484, AI119391, AI119396, AI119341, AI042614, AI119522, U46349, AI042970, AI037526, AI042433, AI134518, AI042965, U46351, AI04346, AI142137, U46350, AI134920, U46347, AI119444, AI119418, AI119320, AI042995, U46345, AI119439, AI037205, AI042850, AI038520, AI134532, AI119488, AI036268, AI119304, AI036679, AR060234, AR066494, A81671, AB026436, and AR054110.
HMMMAF34	8345	842015	1 - 466	15 - 480	AA513125, AI926296, AI949430, AW085621, AW168103, AF583532, AH741101, AA826599, AI473995, AI073373, AA056206, AW166944, AW173443, AI037632, AA297776, N70293, AC002096, AC006080, AC005726, D84401, Z82215, AI031228, AI022067, AI034548, X87344, AC003665, AI020989, AI022097, AC005004, AI033524, AC004408, AI034554, Z95152, AC005089, Z99716, AC006597, AI132708, AI049553, AI109748, AC005858, AC007056, AC005539, AC002430, AC007384, AI022165, AC007182, AP000502, AC005859, AP000065, AI008732, AD000092, AC009464, AI031584, AC005669, AC005409, AF196779, AI139054, AF053356, AI096791, AI049869, AI109801, AI031905, Z86090, Z93020, AC003663, AC004890, AC007308, AC002470, AI031289, L78810, AC005747, AB023048, AP000511, AC005820, AC035703, AB022785, U89336, AI031005, Z84466, AC004876, AI022316, AP000555, AB014079, AC006139, AP000514, AC005088, AC002094, Z99289, AC005988, AC006117, AI003147, AC002550, AI031284, AI034562, AC003086, and AI122020.
HMMMAE45	8346	720838	1 - 791	15 - 805	T91212, T79614, A4553354, AI144465, H75716, H75645, and AF085988.
HMMMAE16	8347	856007	1 - 390	15 - 404	AI915564, AI588833, AW449097, R33336, and R21762.
HMMMAE96	8348	826488	1 - 772	15 - 786	AI119483, AI037777, AI267356, AA298789, AI313083, AI270177, AW069227, AA381754, AI754567, AI755214, AI362442, AI249688, AI754105, AI634187, AW265155, AI249519, AI085242, AA302971, AI754687, N63149, AA584438, AI457313, AC005519, AI078584, AC005412, AC005919, AC004921, AC003012, AC000225, AC002288, AC004492, AC006017, AC005529, AC002316, AC004922, AC007114, AC002303, AC005183, AC005694, AC004228, AI034379, AI022330, AC0035415, AC003049, AC007227, AC006449, AC004799, AI049776, Z83844, Y18000, AP000212, AP000134, AP000030, AI117338, AC005527, AC005243, AC005015, AC004032, AI035443, AI021368, AC005220, AC007687, AC004983, AI049829, AC007298, AP001552, AC007225, AI022334, AF196779, AC006312, AC008149, Z94056, AC002287, M89651, AC004638, AI035422, AC005730, AC007688, AC004837, AC005874, AF134471, AC005081, AC006064, AI035410, Z98200, AI135783, Z99570, Z95987, AC004770, AC002352, AC002470, AC002302, AI034548, AC004796, AC005722, U91323, T78027, AC005899, AI008635, AC005553, AC004106, AI079342, AC004825, AC007537, AC002457,

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HMCTW93	8349	897377	1 - 293	15 - 307	AW238972, AW406916, AA075901, AA044211, H25630, H43485, AA287470, AA296869, AA296966, AA298795, R55519, H80718, H73675, AA034079, AA296826, AA187096, AA218811, AA297863, AA296837, R95168, N86960, R39644, T10507, AA485829, AI342703, C00212, W95348, AA806231, AF161462, and AC002390.
HMCHZ77	8350	771795	1 - 345	15 - 359	R07250.
HMCHS34	8351	703691	1 - 483	15 - 497	T86231, T83384, and T86130.
HMCHK38	8352	752431	1 - 574	15 - 588	AA160383, AI1818161, AI962470, AI655470, AI201401, AI962522, AI809442, AA757199, AA954406, AI557476, W46315, AI263049, AI557453, AA332432, AI867723, AA383667, AI205764, AA370001, AA157926, AA884706, and T78360.
HMCGX46	8353	886903	1 - 415	15 - 429	AI159933, AI971968, AA906691, AI183889, W79831, N92399, AA557293, AI350318, AI017848, AA127092, AI189367, AI924445, AA911261, N70568, AI273685, AI291841, AI912574, R49953, AA937786, AA988459, AA404424, AI081962, W19157, AI129889, AA935718, AI066610, and AF111170.
HMCGV66	8354	787512	1 - 203	15 - 217	
HMCGF39	8355	856222	1 - 484	15 - 498	W27128, and H14722.
HMCFR57	8356	734404	-1 - 405	15 - 419	AI304652, AI347073, AI343275, AI261508, F26025, AA936207, N66083, AA769680, AI867524, AI262402, T99852, and AA854036.
HMCFM86	8357	846578	1 - 498	15 - 512	N58309, AI741756, AA719678, Z39349, H77634, AA868804, AW183178, AI033998, AA910754, AA837855, AI310989, AI753587, AA907745, AA424559, AI015988, AI290795, AA929451, AI025107, AA806009, AA007654, AI033216, AI399750, T06491, AA917469, AA134955, AA702309, AA934480, AA873079, AI097519, W90376, AI818372, R05851, AA285180, AW118389, D56552, AI474543, R98024, T03445, AA886062, AA533260, M78918, AI468146, AA309446, AA424656, AA492384, AF132945, and AF112204.
HMCFM04	8358	927002	1 - 529	15 - 543	AA569402, AW070532, N38778, W190781, W340905, AA535216, AW023111, AA773463, AW237905, AA714110, AI828637, AA524616, AI674840, AI755202, AI066646, AW272294, and AI112204.

AA225406, AA456924, AI061313, AA632765, AW277174, AI633028, R92638, AI755214, AI754567, AA832175, AI732151, AW270768, AA704393, AS904211, AA572813, AA644090, AI291037, AI469140, AI754105, AW270619, AA630854, TS0676, AA534064, AA720774, AI046519, AA715814, AW103406, AA410788, AW328331, AI004591, AI422824, AA523203, AA523204, AI079734, AI491765, AI251576, AI884383, AI053696, AA483606, AA579152, AI609972, AI923451, AI306232, AA527602, F35374, AA720732, AW151935, AI733856, AA570740, AI126475, AA613624, AI370475, AA297666, AW274078, AA653139, AW238253, AA558404, AW081485, AA548610, AI355246, AW130427, AI583466, AA829063, AW075132, H71678, AP955029, AI141733, AI590458, AW243793, H05066, AI345695, AW301771, AI133552, AW274191, AA557982, AA581525, AI801649, AI031373, AA536040, AI446452, AW167330, AI923458, AI627917, AI508655, T74524, AA700943, AA568204, AI570943, AA504818, AI249688, AI249365, Z97053, AF045555, AC005844, AC005081, U91326, AC007182, AC002544, AI031662, AC003098, AF196971, AC004895, AC006077, AC003839, AC004242, AI132641, AF196779, AC005412, AI022323, AC007637, AC003101, AC006285, AI021878, AC005274, Z98742, AC005971, L44140, AC003029, AC007999, AF134726, U95742, AP000354, AI109628, AI049776, AI117694, AI035249, AI009181, AP000557, AC005189, AC005531, AI022322, AC005089, AI008726, AC004797, AB023949, AC004883, AC005690, AI133448, AI031321, AC004760, Z83844, AI035086, AC004647, AF130343, Z84487, U91323, AC004448, AI078638, AC006241, AI050321, AF207550, Z84488, AI008719, AF051976, AC009247, AC007435, AC007216, Z83847, AC005736, AC005280, AC004973, AI022165, AC006023, U95090, AC005486, AI121652, AC004922, Z95331, AC004531, AI024498, AI096791, AI031846, AI031280, AC003684, AI031431, AC004517, AB020865, AI035443, AP000556, AC002996, L77570, AI109798, AC004864, AC002358, AI031710, AC005512, AC007226, AC002310, AC004750, AC003108, AC006111, AC004821, AI035659, AF217403, AC005914, AC006011, AC005324, AI031587, AC002425, AC005086, AI034429, AC007055, AC005740, Z95114, AI049712, AC005944, AI034417, AC000353, AC009516, AI121653, AC004814, AC007450, AI139054, AI035420, AF001552, AI031681, AF038458, AC012384, AC002470, AI031311, AC007225, AI033397, AI078639, AF111168, AC002352, AP000501, AC004033, Z99127, AI050307, AI031295, AI049694, AC006071, AI137191, AI031432, AC002126, AC005829, AC003663, AI022315, AC005993, AC003010, AC004134, AI031597, Z97054, AI096702, Z95400, Z98752, AP000117, AC005697, AC002395, AC004552, Z95152, AC005500, AC004491, AP000030, AI034420, AI034423, Z98743, AI021453, AC005520, AP000211, AP000133, AC005088, AC000003, AC004966, AC005015, Z82182, AC007536, AI003147, AI096712, AC004820, AC004762, AC002430, AC016025, AC004148, Z82976, Z99128, AC004241, AF067844, AC006160, Z86990, AC006130, AC006275, AF024353, AC006040, AC004099, AI035685, AC004953, Z93241, AC005519, AC004408, AF000251, AC002070, AI035422, AC002476, AI121655, D87675, AC007686, AC007384, AC006960, AI021546,				
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HMCIDN93	8359	791555	1 - 340	15 - 354	AL031053, AC005229, AL031729, AC005209, AC004955, AC005509, AC004253, Z82173, U96629, AC005234, AL033376, AC005527, AC002302, AC004813, AB000877, AC002369, AC004049, Z98051, AL031668, AC007358, AC004224, AC007279, AL030996, AC003043, AC003002, AC005409, Z68321, AC004067, AL135960, AL131016, AC007676, AC003070, AC003104, AC005666, AF064864, AC007436, AC005245, AP001053, AL031293, and AC005363.
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HMCDCD70	8360	757192	1 - 360	15 - 374	AI334327, AI312094, AI337819, AA506997, AA576525, H71553, and AA729906.
HMCAR04	8361	925591	1 - 551	15 - 565	AL048459, and T98081.
HMAI277	8362	856266	1 - 330	15 - 344	AA111882, and T73731.
HMAI K06	8363	933960	1 - 395	15 - 409	W21990.
HMAI239	8364	751523	1 - 532	15 - 546	AA182941, and Z43441.
HMAJL09	8365	950168	1 - 633	15 - 647	AR007575, I18860, I18861, I55990, and I55991.
HMAIU90	8366	886821	1 - 531	15 - 545	AI93335, AI683302, AB008185, and AB008184.
HMAIQ20	8367	669436	1 - 446	15 - 460	H87236, H87307, AI640360, AI263034, and AI660741.
HMAIHT5	8368	956705	1 - 527	15 - 541	AA585439, AI526194, Z28355, AI541508, AI541514, AI546855, AI525306, AI541523, AA585101, AI557807, AI525556, AI546999, CI6300, AI541509, AI525316, AI546945, AI546899, Z90131, AI535639, AA585453, AI541510, AI541534, AI556967, AI540967, AI546828, AI557799, AI557796, AI541374, AI541365, AA585434, T11028, AI547039, AI546875, Z82735, AA585476, R29445, AI526140, AI525431, AA585356, D61254, AI541535, AL040149, CI5189, AI541307, AL041140, AL040464, AL040155, AL041346, AL041096, AL047012, AL041358, AI557787, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL044162, AL041086, AL043496, AL041293, AL045725, AL040193, AI541017, AI557731, AL041197, AI526180, AL043612, T23985, AL040463, AL047219, AL041227, AI039915, AL047170, AL080031, AL040119, AL040553, AL040529, AL041292, AL041051, AL040322, AL041131, AL046330, AL040590, AL041133, AL040253, AL041238, AL041142, AL040625, R29177, AL040510, AL043467, AA585440, AL041186, AL047057, T23957, AL044037, AL040091, AL040128, AL040186, AL040255, AL040285, AL040342, AL046442, AL040332, AL040617, AL045684, AL040576, AL040745, AL038761, AL040370, AL043677, AL049018, AL040839, AL041752, AL047036, AL041159, AL043775, AL044165, AL043492, AL041602, AL043444, AL045920, AL047183, AL038838, AL043817, AL044074, AL041635, AL040458, AL040441, AL044187, AL040090, AL040263, AL040294, AL040075, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL041374, AL040052, AL045671, AL043845, AL041246, AL039338, AI525321, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL039744, AL041577, AL044258, AL046850, AL038532, AL040768, AL037727, AI541013, AI046994, AL040414, AL040571, AL040472,

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HMAIA55	8369	899404	1 - 1005	AL180016, AL917719, AL906640, AL380953, and AL002739.
HMAHP37	8370	566344	1 - 428	U79131, and U79132.
HMACT95	8371	795686	1 - 344	H19699, and Z57976.
HMAAGS90	8372	788683	1 - 346	AA232761, and AA232130.
HMAAGI39	8373	910152	1 - 367	AW445199, AL291885, AL291659, AL681688, AL796788, AL864432, AL171323, and AL1586930.
HMAAFF71	8374	760304	1 - 538	AA133358, AL052161, AW340752, W05217, AW402176, AA036844, AW444614, AL733576, and AL137679.
HMAFC96	8375	796348	1 - 436	HL73609, AC002536, and AF125569.

HMAEK93	8376	791549	1 - 750	15 - 764	AA861218, AA150260, and AA150251.
HMADP74	8377	944465	1 - 1131	15 - 1145	AA311043, H11578, R59755, AA027842, AA199784, AI000363, AI26309, R13187, AI693684, and AL096806.
HMACZ84	8378	975349	1 - 340	15 - 354	AI000925, AI261943, AA614341, AA532388, AI000930, AI742836, AW376738, AW136154, AW376570, and E08096.
HMACV54	8379	922354	1 - 409	15 - 423	AI000925, AI261943, AA614341, AA532388, AI000930, AI742836, AW376738, AW136154, AW376570, and E08096.
HMABT55	8380	735360	1 - 444	15 - 458	N50809, AA0931135, AA972697, AA401345, AI024270, AA873221, AW082806, AW025001, AI52742, AI138745, AI277497, AW452978, AI554935, H50235, AI911227, AI700043, AW303800, AI275531, AI241950, AI760168, AI095901, AA618048, AI956652, R09749, AA936697, AI199598, AI206725, AI830389, AA084391, AA987748, H64022, H06700, AI926722, AA988399, AA838228, AI357211, AI362511, AI624349, AA937768, AI879499, AI693589, AI366339, AI363966, AW363996, T91307, AI7149618, AA025560, H15722, AA991841, AA970173, Z40694, AA663409, H20195, AW083589, AI963935, AA843550, H64785, AI243967, AA725384, AW449564, AW450568, AW339993, W96140, W92486, H41770, and AA018786.
HMAAD66	8381	388074	1 - 370	15 - 384	N53558, AI078352, H49897, W00521, N30989, N57223, AA314759, AA431398, AA972343, AA593987, AA418304, AA101913, W90550, H67020, AW450639, N36463, AA120767, AI049530, H53270, H54554, H54238, AA011423, H66916, AA385267, AI784295, W07652, H84477, AI188087, AI379720, AA430152, and AC005859.
HLVHN64	8382	970747	1 - 577	15 - 591	H82097, H10880, and H96186.
HLVHN40	8383	710825	1 - 468	15 - 482	R32479.
HLVHL55	8384	731447	1 - 447	15 - 461	H53572, AA745885, H28445, AI494060, AI676167, AA889745, AI866665, AI245303, AA703022, AI016095, AW264349, AI254741, AI287476, AW160916, AA580663, AI345688, AA742390, AA641818, AI138406, AI590043, AI309380, AI567846, AI537244, AW075382, AI538885, AW151136, AI432644, AI590061, AW079432, AW022808, AI859991, AI953765, AI037454, AI623941, AW022636, AI287233, AI702527, AA766077, AW161579, AI540674, H89138, AI587121, AW304497, AW268759, N29277, AI673278, AI918449, AI118781, AI473451, AA811142, AI538764, AI868204, AI866461, N63128, AW161156, AI037602, AI446373, AI969655, AW020095, AI998990, AW021717, AI890907, AI345745, AW676361, AI929108, AW020419, AI039086, AI047344, AI581033, AI961278, AI537274, AI432570, AI686576, AW020693, AI340603, AI037582, AI537677, AI621341, AI524654, AI866465, AI698391, AW162194, AI284517, AI560545, AI923989, AI241901, AI783530, AW020397, AW190297, AI135024, F26553, AI371251, AW163834, AW021373, AI289791, AI888621, AI473536, AI589428, AI696603, AI046466, F27438, AI281757, AI270295, AI471282, AI636619, AI933992, AW082532, AW274343, AW051088, AI472484, AI633125, AI829990, AI538504, AI535645, AI036631, AI915291, AW152182, AW274318, AI582932, AI872423, AI540606, AI434731, AI524179, AI521560, AI889189, N52016, AI539800, AW195253, AI309306, AW104141,

HLYHK61	8386	932994	1 - 1027	15 - 1041	AF090886, AF008439, I79595, AL137276, AL137463, AF002985, AB028451, AF100781, AF028823, L19437, AF119336, AL110196, AL133080, AR000496, AL137550, U39656, X70685, AF115392, Z13966, Z82022, AL171446, X52128, A93350, AF017152, B01314, AF061795, AF151685, AL133062, AA45787, AF1199027, AL133077, AL096720, U78525, AL050155, A52563, AL050138, AR034821, AL110222, AL137548, AL137480, AL080163, Z97214, X83508, AJ001838, AL133067, A57389, AF017437, Y10080, AL049938, and AL049283.
HLYHK34	8387	703776	1 - 505	15 - 519	AL628843, AW167099, AL093592, AL926603, AA470016, AL986035, AL133500, AA617710, AL027777, AL865403, AA314353, AA782005, W69267, AA860421, W01351, H30472, AA423925, AW131013, AL299627, AA423887, AA034305, AA781518, AL1160307, AL446603, AA92534, AA533814, W16698, AW169172, AA654163, AA412735, N69522, AL440188, AL610236, AL752781, R26875, AL036695, AA412294, AW409605, N79834, AA459402, AL049694, AW068125, AA534481, AA745698, AL347601, N54138, AA626929, R72510, AB865836, AW044069, R94735, AA024807, R72511, AA932913, AA430220, AL383150, AL539588, W67475, AL044134, N58666, AL223230, AW088334, AL186385, AL902383, H72504, AA295920, W38450, R70436, AA545735, AA491113, AL044135, R11021, AA834248, W67476, N58200, H72902, AA459627, R53036, R69450, AW368627, AL902360, H24955, AA431234, AL205760, AA552310, AA861991, R27103, C17844, F04994, H77299, D29280, AL436086, H25746, N58200, H72902, AL648587, AA432254, AL002434, AL016462, R94818, AA865593, AL051263, R53035, AA411966, AA643144, R24912, R37917, AA443912, H24995, R72497, R72498, R11020, and X52574. R67395, AA865763, AW238410, AL269636, AL636436, AL110306, AL119049, AL929108, AL475371, AL041772, AL567351, AL537273, AL492540, AL045500, AL119791, AL079963, AL497733, AL433157, AL036901, AL537677, AL868831, AL285735, AL343059, AL349933, AA225339, AL696626, AL036802, AL431909, AL433976, AA738104, AL340582, AL340603, AL800138, AL286607, AW238730, AW088899, AW151136, AL121328, AL119863, AW071417, AL121365, AL064830, AL044207, AL909642, AL9020095, AL919107, AW162071, AL500077, AL288285, AL040241, AL036396, AW074993, AL888953, AL815855, AL349645, AL344817, AW301344, AW268253, AL699865, AL312152, AL366992, AL312428, AL336575, AL349937, AL499652, AW087445, AW089572, AL802542, AA640779, AW103371, AL494256, AL269862, AL815232, AL697524, AL280732, AL888944, AL174394, AL580190, AL91076, AW302965, AL524671, AL121270, AW167222, AL364788, AL036187, AL680162, AL251830, AL869377, AL538716, AW076880, AL349772, AL613907, AL249877, AW129106, AL446373, AL041573, AW117882, AW020164, AL038605, AL340519, AL120853, AL048656, AL440426, AA427700, AL040169, AL610557, AL036361, AL047042, AW163823, AL521012, AL567360, AW071349, AL921248, AL627748, AL348897, AL619502, AL682743, AL687728, AW150578, AL119748, AW026882, AL135661, AL620284, AL345608, AW406745, N80094, AL036736, AL702073, AL135065, AL612913, AW168485, AL818683, AL499393, AL680457, AL783504, AW268251, AL500523, AL539771, AL560012, AL250663, AL343112, AL1680498, AL922901, AL1349598.

AI500659, AA7161557, AI345471, AI047763, AI469532, AI439762, AI906328, AI040827, AI934035, AI284517, AI633419, AI036274, AA527258, AI631273, AI45735, AI866780, AI358701, AI18569, AI436429, AI923989, AI7130863, AI51138, AI5091316, AI3003152, AA585422, AI433037, AI45253, AI597918, AI493559, AI049085, AI058676, AI689175, AI084219, AI103886, AI952920, AI162194, AI933785, AI554218, AI866002, AI079572, AI268220, AI702406, AI828731, AA715307, AI079159, AI619716, AI172723, AI679724, AI658033, AI087938, AI499285, AI934147, AI873644, AI687065, AI612759, AI089179, AI130930, AI151729, AI867042, AI696819, AI043981, AI828903, AI566630, AI532040, AI040243, AI439614, AI036403, AI280661, AI859464, AI445990, AI659795, AI457267, AI919345, AI520809, AI569309, AI922577, F36033, AI349004, AI494201, AI571909, AI082594, AI478123, AI207510, AI352497, AI564749, AI689420, AI537515, AI538342, AI284131, AI198075, AI554821, AI088134, AI366549, AI824576, AI636719, AI824746, AI818941, AI539153, AI343091, AI500553, AI280670, AI097410, AI590686, AI587606, AI716384, AI468872, AI004900, AI89947, AI122050, I48979, AI18070, AI090900, AI033640, AI13694, AI104032, AI090934, Y16645, AI125948, AI090903, AI090901, AI050138, AI090943, AI125949, AI096744, AI049452, AI050024, AI42766, Y11587, AI13077, AI13013, AI10221, S68736, AI08916, AI097996, AI078844, AI050393, AI08913, I48978, Z72491, I89931, AI133075, AI17457, AI158248, AI050146, AI2297, AI113019, AI049938, S78214, AI242859, AI133557, AI133016, AI111112, AI038969, Y11254, AI13691, AI117460, AI133067, L31396, AI080124, AI133072, L31397, AI080060, AI133104, AI113690, AI113677, EI5569, AI090896, AI08910, L19437, AI133080, I49625, AI137459, AI08909, AI012755, AI011880, AI93016, AI180664, U67958, AI137648, E07108, AI122121, U72620, AI122049, AI049283, AI110196, I42402, AI059958, U96683, AI080137, X72889, AI100931, X87582, AI137271, X84990, AI45787, AI133606, AI137527, AI080074, E04233, AI050172, AI117583, AI117585, AI137463, AI122110, E03348, AI113689, AI049314, AI133077, AI050108, AI133014, AI137565, AI137476, AI137556, AI133093, E05822, AI113699, AI137538, AI117394, AI079765, AI08912, AI07437, E12747, AI137526, AI007458, AI050116, X82434, AI087943, X70685, AI162270, AI113676, U80742, AI038854, AI000937, AI080159, AI11851, AI183393, Y14314, AI050149, AI17435, E02221, AI106862, E07361, I09360, AI137557, AI07152, AI080127, AI050277, AI110225, AI122093, AI000496, AI049430, U39656, AI137533, I00734, X63574, AI061943, S61953, AI019565, AI118094, E00617, E00717, AI00778, AI177401, X65873, AI091084, AI067728, A65341, AI133645, E02349, AI210052, Z82022, AI153205, AI122098, AI185576, AI146568, AI133560, AI122123, I26207, AI049382, AI17440, AI133113, X20495, U91329, U00763, AI049466, L30117, AI133098, AI133568, AI079763, Y09972, AI081197, AI119337, AI137550, AI93550, AI026816, A77033, A77035, I33392, AI049464, U35846, AI117432, A03736, AI006417, AI110280, X98834, I03321, AI0832, AI137478, X96540, U88966, A58523, AI003737, AI049300, AI137560, AI132676,				
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HLVH137	8388	708625	1 - 466	H11582, and AC002433.
HLVH102	8389	919201	1 - 522	AA992212, and AT799979.
HLVH105	8390	953925	1 - 476	AA830774.
HLVHF62	8391	743058	1 - 357	T47077.
HLVHE85	8392	784140	1 - 500	AA210805.
HLVHA48	8393	721372	1 - 489	AA251190, AA805977, AA765489, AA810907, AL118823, AA081462, H18914, AL133337, AA493136, R17793, AL118862, AA654661, AL524360, AT745151, AL755214, AA845209, AL284092, AA984114, AT754567, AA845659, N71685, AA002063, AT754105, AA584125, N57739, AA748833, AW179306, AA643801, AA548356, AL138182, AA282820, AA126450, AA664320, AL683446, AL700996, AW179305, AL049834, AL031733, AC009399, AC005829, U91323, AL034418, AL049765, AC002544, AC004031, Z83822, AL135744, AP000251, AL023803, AC008085, U95742, AC007065, AP000031, AL049610, AC007938, AC006442, AC000004, AP000134, AP0000212, AP000030, AC007216, AC009044, AC006241, AL049829, AC005874, AF134471, AL049712, AC006509, AC005823, AL031587, Z85986, AC005488, Z86090, AC005233, AC005736, AC004837, AC007240, AF064861, AL132777, AL117338, AP000213, AC005755, AL022574, AL121652, AC004821, AC005911, U95743, AF196779, AC004098, Z98036, AC007731, AC005005, AC007686, AL022165, AP000688, AL023799, AP000356, AC008101, AL031584, AC005484, AC003664, AC003982, U52112, AL035681, AC006441, AC007386, AL031053, AC002375, AP000692, AC005324, Z98304, AL022316, AC005899, AB003151, AC006958, AC005412, AC003098, AC007014, AC005225, AF107045, AC003029, AC005740, AL022574, AL121652, AC004821, AC005911, U95743, AF196779, AL031427, AC004905, AC006064, AC007707, AC003688, AC006511, AC007566, AC008079, AC006146, AC005180, AC002119, AC005102, AC004615, AC005523, AP000493, AL031311, AC004032, AL035071, AC004859, Z94721, AC004966, AL049576, AC005914, AC006317, Z98946, AL121658, AC004526, AC009247, AP000557, AC007934, AC005399, AC004895, AF111168, AL122020, AC007314, AL031431, AC005018, AC005091, AC005971, AC002565, AC005924, AC006581, AP000556, AF024533, AC004605, AL021918, AL035587, AL034417, AC005215, AC004134, AC006084, AC008009, AL021154, AC002477, AC008372, AC004257, AP000513, AC006515, AF001549, AC005545, Z82172, AL022323, Z75888, AC006167, AC005520, AC004167, AC002262, Z93017, Z81364, AC004491, AC004150, AC006079, AL096791, AL110502, AF051976, AL022163, AL049646, AL031230, AL109842, AL022476, AC006538, AC009516, AL078477, AL035089, AL096712, AC007666, AC004813, AC005996,

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HLYHIA04	8394	614848	1 - 369	15 - 383	H60536, and I71235.
HLYGZ71	8395	760115	1 - 1102	15 - 1116	AA03495, AI951943, AW193804, AI694511, AI128000, AA412019, AI004612, AI652122, AA149258, AI184929, AI831205, AI914140, AI825243, AI828310, AW166291, AI827812, AI696053, AI631553, AI962314, AI671447, AI917812, W16795, AA338943, AI968277, AI967940, H24914, AA149273, AA338944, AW196482, AA973869, AI962471, AA905468, AI394723, AI874337, and AC004707.
HLYGZ11	8396	966503	1 - 631	15 - 645	N69782, and AI282808.
HLYGY60	8397	740081	1 - 510	15 - 524	AA699729, W04930, AI200342, AI742692, AI571717, N31641, AA255846, AA158572, AI672122, H09836, AI872640, T97584, R11183, AL050099, AF090421, and AF074393.
HLYGW95	8398	795682	1 - 547	15 - 561	AW026243, AI040710, W84710, AW008549, AA573109, AA236651, and W78856.
HLYGR56	8399	733123	1 - 623	15 - 637	AA149383.
HLYGQ29	8400	689972	1 - 423	15 - 437	R37228, R21422, and AI336270.
HLYGQ11	8401	966539	1 - 335	15 - 349	AA251264.
HLYGM76	8402	769835	1 - 438	15 - 452	AI914239, AA164188, AA911297, and AI299137.
HLYGM08	8403	958820	1 - 96	15 - 110	R23343.
HLYGJ76	8404	685240	1 - 552	15 - 566	T48433, AI767091, AC002300, and AC007637.
HLYGH51	8405	871634	1 - 451	15 - 465	R07073, and AC009363.
HLYGD69	8406	754841	1 - 289	15 - 303	AA829595, and R96050.
HLYGB38	8407	709187	1 - 403	15 - 417	H60939, and H60832.
HLYFW38	8408	709185	1 - 378	15 - 392	AA011710, R07553, H90263, and AC003006.
HLYFU24	8409	856392	1 - 523	15 - 537	T93162.
HLYFR17	8410	859567	1 - 779	15 - 793	AW139151, AI871342, AI763244, AI452467, AI553909, AA948409, AA010128, AI222204, AI143693, AI422032, AI273370, AI272906, AA854857, AI139496, R42952, AI192619, AW205762, AA853531, AI498208, AA736392, Z41265, AA010127, AI073814, AI928656, R64374, and R64373.
HLYFP56	8411	871637	1 - 510	15 - 524	AA811657, AI342538, AW204675, AA748459, AA252369, and AL109939.
HLYFO29	8412	690381	1 - 508	15 - 522	AA058482, AI784112, AL022476, and AC004924.
HLYFE11	8413	966519	1 - 641	15 - 655	AA777743, U95742, and AC007216.
HLYFD51	8414	725116	1 - 536	15 - 550	H09377, AW405976, AA281160, AB018260, and AC007868.
HLYFCS4	8415	797999	1 - 528	15 - 542	H81232.
HLYEV46	8416	889678	1 - 453	15 - 467	AW016081.
HLYEV42	8417	856395	1 - 571	15 - 585	T95746.
HLYEF54	8418	729406	1 - 542	15 - 556	R04090.
HLYET48	8419	721501	1 - 416	15 - 430	R19796.

HLVET17	8420	662764	1 - 406	15 - 420	R10240.
HLVES45	8421	717640	1 - 629	15 - 643	R13145, AW402725, and AA322385.
HLVPS9	8422	739151	1 - 523	15 - 537	T72749, and T78529.
HLVEO83	8423	781038	1 - 623	15 - 637	AA088553, W27797, AA085803, AA088387, and AA811260.
HLVEO37	8424	708623	1 - 622	15 - 636	H73386.
HLVY1	8425	760220	1 - 536	15 - 550	AA234738.
HLVED44	8426	716430	1 - 341	15 - 355	AA074364.
HLVEB21	8427	670678	1 - 411	15 - 425	N55397.
HLVEB11	8428	966748	1 - 338	15 - 352	H81361, T86913, R11275, and T81629.
HLVEA92	8429	561537	1 - 390	15 - 404	AC004904.
HLVEA86	8430	488801	1 - 416	15 - 430	H60327.
HLVEA70	8431	943886	1 - 739	15 - 753	W79930, AA233418, T87364, AT65694, A1042017, AT672297, T87365, R94396, A1082728, R78669, R32116, AT68587, A1025761, AA564574, A1142898, AW026724, A1183414, AW183773, A1075126, AA127962, AD10695, N34843, A1628624, AW192585, H64364, H48681, AW263057, R32115, and H65991.
HLVEA49	8432	722787	1 - 319	15 - 333	T63328.
HLVDY72	8433	761359	1 - 465	15 - 479	T62223.
HLVDX40	8434	856401	1 - 447	15 - 461	H97055.
HLVDV37	8435	800224	1 - 196	15 - 210	AA015905, and Z94054.
HLVDU14	8436	658035	1 - 431	15 - 445	T69478.
HLVDI27	8437	856405	1 - 591	15 - 605	AA776723, AA683336, AT767217, and AT286332.
HLVDT09	8438	972424	1 - 399	15 - 413	
HLVDQ75	8439	767176	1 - 1007	15 - 1021	AA203659, and AW241874.
HLVDQ45	8440	717079	1 - 430	15 - 444	H52699, AT92315, AT92132, AA602938, A1821784, and AA632549.
HLVDK95	8441	973370	1 - 448	15 - 462	Z97832.
HLVDI03	8442	923826	1 - 374	15 - 388	D29106.
HLVDG74	8443	939025	1 - 468	15 - 482	H13358, Z42104, H17403, and A1016363.
HLVDG42	8444	713579	1 - 394	15 - 408	H48653, and AC005971.
HLVDI07	8445	952940	1 - 531	15 - 545	A1475857.
HLVDD60	8446	740212	1 - 469	15 - 483	AA255936.
HLVDB08	8447	959076	1 - 375	15 - 389	AA704579.
HLVCX70	8448	757087	1 - 743	15 - 757	AW136494, AA975914, W01691, T78992, H82694, and A1696519.
HLVCX34	8449	703910	1 - 507	15 - 521	R93349.
HLVCX18	8450	943714	1 - 444	15 - 458	N23033, N28696, A1417970, AT379543, AT288223, A1119457, A1119464, A1134536, U46351, A1119324, A1119401, A1134525, A1119341, A1142131, A1037205, A119484, A1134902, A1134531, A1134527, A1119355, Z99396, A1119418, A1042433, AR054110, and AR066494.

HLXCX02	8451	919563	1 - 486	15 - 500	AI149248, and AC004217.
HLXCU59	8452	679219	1 - 647	15 - 661	N50536, N50591, F25082, F31286, AA708834, AI128677, AI141858, AA496237, AI204314, AI087869, F27745, AI096570, W58285, AW044334, F24116, N93239, F34390, AI097157, N77900, AI694918, AI302021, F28502, F24691, AI216592, AA496229, AI215933, AI185557, N91784, AI015748, AA369658, AI383691, F21399, N93026, F35775, AA249321, F28306, W93864, F24386, AI911727, AI031778, AF161698, and AF086496.
HLXQC43	8453	825509	1 - 776	15 - 790	AA533040, AI096701, Z92542, AC003007, AC002565, AC007308, AC006111, AC008079, AC007193, AC004526, AC006077, AI031283, AC005015, AC005081, AI133246, AC008101, AC004263, AC005399, AC004882, AC006211, AI020997, AP000512, AI133485, AC016831, AC002363, AC004821, AC007725, AI049776, AF095901, AC004382, AC005519, AC002470, AC020663, Z95116, AC004491, AC004851, AI020993, Z97053, AC005067, AP000047, AC006368, AC006950, AC002472, AP000065, AI049869, AC005089, AC006449, AI121658, AC005180, AC002288, AC005280, AI080243, AC005632, AI049872, AC005057, AC005071, AC005972, AC005037, AC007637, AC004966, AC002126, AC005529, U62293, AI011930, AF124523, AP000689, AF227510, AC007993, AC005525, AI031295, AI022237, AP000115, Z84469, AC002504, AC005839, AF196779, AC004084, AC007386, AC004859, U91321, and AC005756.
HLXCP63	8454	856424	1 - 354	15 - 368	AA572949, AI080652, and AI911457.
HLXCO03	8455	923844	1 - 658	15 - 672	AA131813, AA131743, AA255495, AA256703, and AI021978.
HLXCM14	8456	657589	1 - 387	15 - 401	R95898, AI719970, AF130247, and AF165138.
HLXCL69	8457	914887	1 - 495	15 - 509	H81370, AA156982, and AA045946.
HLXCF51	8458	725067	1 - 435	15 - 449	T95959, and AI563950.
HLXCF37	8459	949401	1 - 1327	15 - 1341	AI138431, AI042377, AI871691, AI423034, AI419419, AW020150, AI380617, AI801479, AI440117, AI043052, AI044489, AW237905, AI904840, AI118843, AA282951, AW020094, AA225406, AI041375, AW021399, AW272294, AI037910, AI066646, AA355159, AW268322, AI279417, AI800426, AI135357, AA594157, AI138455, AA713946, AI242011, AI635028, AW238712, AI479148, AI041924, AA714110, AA760655, T05118, AI054418, AW275432, AI110373, AI356440, AI720582, AA584765, R98002, F30310, AA286836, AI554471, AA847395, AI445224, AI049643, AI095197, AI270177, AI032875, AA654874, AA808153, AI955029, W02749, AI086646, AW340905, AI042753, AI445297, AI755202, AI022165, AC002558, Z86090, AF705588, AI035420, AC006965, AC004832, AI022721, AC005779, AC005088, AC002563, AC005005, AF196779, AC004987, U91323, AP000116, L78810, AC007283, AC002991, AC010077, AC002477, Z99716, AC005527, AC005409, AP000042, AI022238, AC004383, Z95116, AI035405, AC006480, AC004813, AC002430, AC006211, AC005081, AP000045, AC007899, AC004858, AI096791, AC005291, AC006441, AC007055, Z95114, AC007384, AC002369, AC002401, AC005519, AI008731, AI020663, AC004874, AI023584, Z82206, AI031005, Z84487, U47924, AC005940, AC005180, AC004662, AI008582.

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					H53582, and AP000692.
					R78255.
					AA149546, AA115127, AH17248, AA114945, AP283409, AA164347, and AC006504.
					AA262444, AA210704, AA262445, and AA825796.
					AA259030, and AA741004.
					H52816, and H52779.
					T66013.
					AL046592, W26468, AL039255, AB023228, and AL080133.
					T98972, AL052248, AA770344, and ALI862542.
					AA827695, and AA833754.

HLYBA06	8472	935611	1 - 527	15 - 541	AA736563, AA62445, AA838190, AA724333, AA669153, AA380354, A1537772, A1141701, AW439555, H18914, AL119800, AU950671, AW151713, AW302909, AA665146, AW021161, AW304580, AW404545, AW301385, AA704393, AA832077, L35667, AC006538, AP000556, AP000557, AL009031, AF135187, AC005612, AL136297, L76568, U07562, AC007199, Z85987, AP000665, AL050348, AL031714, AC004020, AC006285, AC002326, AC005815, AL133239, AC016025, AC006126, K02579, AC003070, AC004975, AP000509, AL033523, AL031279, AP000690, AC002119, AC002301, AC005211, AF207550, AC004262, AL033517, AC005071, AP000359, AC007128, AC005933, AL024498, AC004051, AP000208, AP000130, U89337, AL031281, AC005952, AC005005, AC004590, AC004017, AC012083, AL022332, AC004887, AF007544, AL133102, AL049636, AC004832, AP000691, AF196969, AF217403, AC005519, AL035684, AC005067, AF111169, AC005377, AL022332, AC004983, AL022330, AC005324, Y07848, AL031664, AC005901, AC004813, AL0079304, AC003969, AC005783, AF067844, AL020996, AF200465, AP000030, AC000026, AL024474, AC007639, AC004659, AC007637, AP000553, AL008721, AP000246, AC002059, AL050341, AC004751, AL109802, AL022100, AL080313, AP000134, AP000212, AP000964, AF190465, AL021392, AL049766, AC004775, AC005730, AL079301, AL024508, AL021155, AL022237, AC004458, AC004694, AL022333, AL008382, AL023575, AC005484, Z77249, AL009179, AL049795, AC005907, AL096794, AC006047, AC006509, AP000693, AC012384, AC005756, AC006211, AC007686, AC006013, AL034451, AL139054, AC000585, AL031680, AC005702, AC005081, AF031078, Z99716, Z84466, AL031663, AC004235, AB022785, AL031297, AF030876, Z82189, AC005578, AC002476, AP000008, AC005379, AC004921, AL049611, AC005940, AP000697, AL049712, AC004983, AP000967, AC007011, AC007546, AF030453, AC002070, AD000671, AC005799, AC002565, AL008734, AC006071, AC000779, AC007899, AC004889, L44140, AC001227, Z86090, AP000704, and Z97989.
HLYAX75	8473	767225	1 - 342	15 - 356	AC004242.
HLYAX32	8474	699337	1 - 188	15 - 202	AI926931, T92757, and AC004984.
HLYAU15	8475	782335	1 - 570	15 - 584	AA693492, AW404616, W15342, AA081452, T87195, AA360189, AI984687, T87282, and AL117352.
HLYAS35	8476	856469	1 - 430	15 - 444	AA703693.
HLYAR25	8477	678179	1 - 470	15 - 484	AA193337.
HLYAQ92	8478	792770	1 - 388	15 - 402	AI557306, AI623716, AA831121, AA687968, AF768629, AI458826, AI280154, and N42105.
HLYAO70	8479	757235	1 - 793	15 - 807	R93501, R91736, R92164, and R93500.
HLYAQ69	8480	754229	1 - 329	15 - 343	R38112, and AL109679.
HLYAN68	8481	815950	1 - 365	15 - 379	AL109628.
HLYAN21	8482	854034	1 - 330	15 - 344	
HLYAN10	8483	964834	1 - 651	15 - 665	AA487424, AA578890, and AI524037.
HLYAL58	8484	736097	1 - 593	15 - 607	H10627, and R15002.

HLVAL22	8485	856473	1 - 443	15 - 457	AA847181, AA470533, AA484373, AW243954, AI821918, AI821881, AI268334, AI268336, AI805363, AI191659, AA507912, AH70431, AA583218, AA715805, AA583229, AA600869, AA605272, AI038936, AI060538, AI805547, AG683238, AA527209, AI704037, AI500453, AI250083, TG6081, AW002350, AW102846, AA468022, AA501718, AI932599, AW277171, AA757775, AI801482, AA326356, AH660009, AI908093, AA811208, AI079683, AI469599, AA947454, AA351235, AA714110, AA4578907, AI308328, AA420998, AI817976, AA421078, AI690446, N84446, AG651632, AA492391, AA464451, AI031228, AP000512, AI035530, AC002314, AC000003, AC007666, AI031005, AC005387, AC004821, AI050337, AC005231, U07561, AC005089, AC005015, AI021366, AC005919, AI133245, AC007225, AC005231, AF165926, AC007686, AC005971, AF207550, AC007364, AC005480, Z83840, AC002418, AC005066, AC004806, AC004659, Z95114, AC005102, AI139054, AP000553, U85195, AI133448, M63796, AC004148, AI049776, AP001137, AC007536, AC004972, AC005071, AI135744, AC005250, AP000557, AC006270, AE000658, AC004560, AI096703, AC004386, AI031848, AP000348, AC004098, AP000347, AC004858, AC002073, AI009181, AF053356, AC005034, AC004804, AP000688, AC004878, AC005324, AI049795, AC016025, Z93017, AC005399, AP000359, AC004019, AF129756, AC006064, AI031597, AC005330, AC020663, AC004883, AC005412, AC003041, AI049839, AC005393, U95742, AC005736, AP000010, AP000152, AC004895, AC005519, AF111168, AC007066, Z97054, AI022476, AC002558, AC007216, AI031680, AI049745, Z84474, AP000146, AP000337, U47974, AC004638, AC006285, AC005410, AI022724, AI050338, AI031777, AC005880, AP000117, AI022238, AC004797, AI031283, AI031587, AI031055, Z92542, AC007387, AC0009247, AC004967, AI031311, AC007050, AC005484, AC005291, AC002126, AI080242, AF069489, AC002470, AI024507, AC002350, AI022237, AF109907, AI031662, AC004913, AI003147, AI021707, AF196969, AC002563, AI022316, AC004381, AP000263, AC002312, AC004760, Z93241, AC006130, AI035450, AC004912, AC000353, Z84469, AI078581, AF031076, Z86090, AC005215, U29953, AC005740, AI135783, AC007308, AP000556, AI117354, Z85986, AI049766, AC006315, AI022320, AC006312, AI121653, AC003664, AI049569, AC004755, Z99716, AC000079, AC004848, AI049761, AC002553, AC002565, AI034379, AI132987, AP000692, AI000812, AP000087, AC000026, AC004813, AC005921, AI008720, AI031668, AC005500, AC004167, AC005225, AI117258, AC004998, Z99128, AC003029, and AI121934, AA809368, AW190881, and AI240461.
HLVAL11	8486	967173	1 - 327	15 - 341	T92768, and AA682689.
HLYAK36	8487	708028	1 - 356	15 - 370	AA013385, W96162, H84095, AA059069, AA054036, H84089, H86124, AA018232, AA018236, and AA058598.
HLYAK34	8488	421604	1 - 430	15 - 444	
HLYA149	8489	723039	1 - 422	-15 - 436	W24486, C06267, R42858, AA978262, AA505146, AI636820, AI143214, AA045249, AI677860, AA491378, AA255801, and AI031297.
HLYAG59	8490	888232	1 - 427	15 - 441	

HLTHS37	8491	708613	1 - 789	15 - 803	T84485, and T84484.
HLTHS02	8492	856560	1 - 346	15 - 360	T81238.
HLTHS02	8493	708620	1 - 625	15 - 639	R51493, and AT702381.
HLTGT83	8494	780903	1 - 446	15 - 460	R58966, AW1773238, AW188064, AA847255, and AI808879.
HLTGT36	8495	708027	1 - 863	15 - 877	AW131623, W69435, W69518, AW020239, AW449813, AI381962, AW160061, and AB020725.
HLTGS17	8496	662409	1 - 490	15 - 504	H66393, AW077817, AI357551, AA342901, F19238, AI914706, AW265197, AW074398, AI561335, F31204, AA228329, AA515128, F37286, N711724, AA368745, AA077952, AI886176, AW276435, AA654627, AA714140, AW406659, AA304977, H55859, AI249997, AI305547, AI553983, F29989, AI610159, AI184226, AI345518, N23649, AA584749, AI613280, AA443065, T71998, AI284640, AA580662, AA650244, AW265654, AI003734, AI989742, F17518, AA340003, AI041368, AI287528, AI49874, F28576, AI358229, AI061334, F36273, AW438643, AI569086, AA515224, AI469172, AW406755, AI471481, AI298281, AW270284, AI365988, AA601270, AI557323, AA578154, N43757, AI473090, AA879033, AW151884, AA743956, AW337985, AI801600, AI951928, AI079910, AI286264, AW339687, AA299601, AI872421, AI130799, AI951889, AI445436, T12272, AI890052, AI127636, AI138265, AA450199, AI963786, AI635272, AI708009, AI587006, AA729264, H64560, AI299030, AA341228, AW340844, AI345675, AA665192, AW102955, AI079645, AW021747, AI545681, AW168433, AI225141, AW022046, AI801591, AI344844, AI274692, F33566, AI376100, AA658235, AI807372, AA641103, N25296, AI168185, AI421213, AW274349, AI376100, AI816537, AA745560, AI433187, T06556, AA295899, AW157005, AI824562, AW188544, AA501344, AA745431, AA745410, AI015912, AI469503, AA747472, AI028510, AA483204, AI471464, AA758934, AA605274, AW303196, AI042856, AW301350, N69962, AA626637, AI471487, AA558269, AW074059, AF177861, AA776609, AI688846, AI356904, AI049634, AI340453, AI922654, AI564284, AI537955, AA176924, AC004142, U02048, L13709, M87918, L13713, L13714, AC006379, AC006241, AF002991, AC007488, AC006221, U52427, AI096775, D83989, AC004949, S42639, AC005003, AC005944, U02058, M87919, M87923, AI023284, AC006597, AC004027, AI121603, X55932, AC005722, AI023879, AC005485, U18393, AI035494, AC005225, AC002564, AF077058, Z50860, AF053356, Z49237, AI023807, AP000432, AC005091, AC004998, AC005332, AI050312, S70694, AC002429, AC002347, AC006076, AP000082, AC007750, Z84721, AI031005, AC006538, AB020865, AP000346, U14702, AC009225, U95742, AC002059, AC005771, AC004232, AE000662, U02063, AC003681, AC007226, AI109865, I48472, AI049871, Z83849, AC004028, M94081, AP000431, AC007681, AC005694, AC007917, X55922, AI049829, AI049759, AI050333, AI096702, AI121653, AC004236, AC003954, AC005237, AC005324, I51997, AC009247, AC005032, Z97183, AI022318, AI121658, AC005610, AC005913, AC004765, U80017, AC002984, AC004927, AI078614, AP000128, AP000206, U52112, AP000351, AC004638, AP000114, Z83840, AC005527, AC006537, X55926, AI034400, AC002312, AC004678, AI021918, AC002116,

HLTGR28	8497	693990	1 - 616	15 - 630	<p>AC005330, U73634, AC002480, AP000305, AC006312, AC006285, AC004814, AP000474, AF147277, AC007358, AC004813, AC004975, AL035681, U14703, AL035415, AC005249, AL080243, S70697, AC004799, AF001298, Z97989, AL118507, AC0016025, AC006160, AC002310, AL023575, AL009181, AL022323, AF045555, X13921, AC004596, M87916, AC002381, AC005529, AC004460, AC005053, AC006255, Z82173, AL121655, AL031427, AC007057, AC006130, U75285, AC006111, Z82975, AL022302, AC005895, Z84474, AL003147, AL109802, AC010205, AP000047, AP000245, AC002425, AC005777, U14689, AC009069, AP003627, AF121898, AL031665, AC007676, AF006752, AL035703, AC000097, AC005924, AC007298, AC002563, Z68869, AL080248, AC007304, AL133297, AL109807, AL033322, X53550, AC000379, AC006039, AC004645, AL021879, AC006547, AP000503, AC003982, AC006088, AL031257, X55928, AC005681, U18390, AC006197, AC005099, U72787, AC002352, AC007845, AC001531, AC002350, AC007421, U78833, AL032821, AC007102, AL022336, AC007038, AC006120, AC005081, AC002367, AL022326, AP000465, AC006511, U18394, AC016026, AC005261, AC009479, AP001042, AC004242, AC004969, AC002301, AC007076, AC018769, AL049636, AC004851, AC018767, AC004815, AL035086, AL135744, and AC003108.</p> <p>H56364, D80166, D59619, D80210, D80240, D80212, D51799, D80219, D51423, D80253, D58283, D81030, D59859, D80193, D80195, D80391, D80188, D80227, D80196, D59889, D59927, D80043, D80269, D80038, D80366, D80024, D59610, C75259, C14014, D57483, D59275, D80022, C14429, D80241, D59979, T03269, D59467, D80045, D59502, AA305409, D50995, D80378, D80164, C14389, D59787, C14331, D80134, C15076, D51060, D80268, D81026, F13647, D80949, D51250, D81111, D58253, D80168, AW178893, D51022, AW179328, C14227, D52291, AW177440, D51079, AA305578, AW178775, AA514186, AW378532, D80251, D80248, AJ910186, D80133, AW369651, D59695, AW178762, Z21582, C05695, AA514188, AW352158, AA285331, D80522, AW177501, AW177511, C14298, AW360811, D80064, AW352117, AP005836, AW176467, AW375405, AW177505, AW377671, D80132, C14407, D51097, D59973, AW366296, AW360844, AW360817, AW375406, D80439, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, D80247, D80302, AW352171, AW377676, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, AW360834, D51103, AW179020, AW360841, AA809122, AW178909, AW177456, AW179329, AW178980, AW177733, AW352174, AW378528, AW178908, AW178754, AW179018, D80157, T11417, D80014, A1557751, AW179004, AW179012, AW178914, AW378525, AW179220, D58246, AW367967, D51759, AW177722, AW177728, AW179009, AW178774, AW178911, AW378543, AW352163, D59503, C14077, T48593, AW178983, AW352120, D58101, T02974, D59653, AW178781, D59627, C06015, D51213, AW378539, AW177723, D45260, D80258, C14975, AW177508, T03116, H67866, A1535850, A1525923, H67854, AW378533, AW367950, C03092, A1557774, AW177734, AW177497, D51221, AW178986, D80228, A1525917, C14957,</p>
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HLTGPR47	8498	719975	1-433	15-447	AI535686, D59551, D59317, D59474, D50981, AI525920, D45273, C14973, C14344, AA514184, AA59898, D60010, AI525235, D60214, AI525215, AI525227, AC008079, AC007324, AC008101, A62298, A62300, A84916, AIJ32110, AR018138, X67155, A67220, D89785, A78862, A25009, D26022, D34614, Y17188, AR025277, D88547, AR008278, AF058696, AB028859, X82626, Y12724, X68127, AB012117, A83396, AR066482, A82595, A85477, AB002449, A86792, AR060385, I19525, A94995, U87250, A44171, X93549, AR008443, I50133, I50126, I50132, I50128, AF135125, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR038669, Y09669, A43192, A43190, AR066490, I18367, A30438, AR066487, I14842, D88507, AR054175, D50010, Y17187, AL050343, AC007124, AL050324, AR008408, AR064240, AR08277, AR008281, A63261, AC007964, AR062872, A70867, AR016691, AR016690, U46128, A64136, and A68321.
HLTGPR47	8498	719975	1-433	15-447	AW393850, AI194696, and AW274557.
HLTGO89	8499	786674	1-594	15-608	R24848, and Z43303.
HLTGN92	8500	791185	1-358	15-372	R83296, H61528, R06428, and AA497003.
HLTGA40	8501	710728	1-401	15-415	H12953, AA436993, and AA426378.
HLTEZ30	8502	960911	1-338	15-352	T85564, T84409, AA361578, and R08443.
HLTEZ19	8503	671610	1-705	15-719	N98660, AI052555, AI033178, R16888, and AA437100.
HLTEX27	8504	927578	1-336	15-350	N95142.
HLTEV66	8505	772965	1-506	15-520	AA046570, AI912976, A1810637, AI400892, AI420896, AA317499, N44648, AI085349, T49602, AI825760, AI650498, AA046705, AA782778, H05628, and H17485.
HLTEP45	8506	723375	1-524	15-538	AA159675, and AC007068.
HLTEP25	8507	678685	1-508	15-522	R14032, AA825482, H95342, H70614, and AC004921.
HLTEG51	8508	494330	1-605	15-619	W40567, AL040311, AA905330, AA677615, AW205363, and D80009.
HLTEG37	8509	417243	1-363	15-377	
HLTEC83	8510	574630	1-213	15-227	
HLTEC35	8511	574632	1-266	15-280	
HLTEA20	8512	669900	1-582	15-596	AA007473, W93011, Z44985, AA430251, and N71668.
HLTDRA3	8513	715529	1-664	15-678	AI953354, H16401, H00613, F09067, R82764, Z38624, and T17430.
HLTDJ17	8514	577379	1-657	15-671	W56369, H84793, AA913919, AA485021, AC007387, AC006543, and AC006544.
HLTDH96	8515	796560	1-275	15-289	N77412, and AI689177.
HLTDG59	8516	739699	1-340	15-354	T81367, AA372287, R50286, W30782, and AL137669.
HLTDG30	8517	693329	1-345	15-359	H85024.
HLTDDB38	8518	456860	1-418	15-432	R95058, and R83706.
HLTCZ55	8519	732385	1-312	15-326	AA429774.
HLTCX39	8520	705648	1-432	15-446	AA157834, and AF095703.
HLTC177	8521	772458	1-356	15-370	H84601, and AW379855.

HLTCR77	8522	772457	1-373	15-387	H84836
HLTCR11	8523	967559	1-335	15-349	AA548022, and AC005740.
HLTCM59	8524	442563	1-1173	15-1187	AA633942.
HLTC43	8525	715530	1-487	15-501	R12467, and AB020672.
HLTC11	8526	967541	1-303	15-317	AI150147, and AI362692.
HLTC44	8527	507362	1-353	15-367	R67838, and AC008033.
HLTC47	8528	720662	1-342	15-356	H54393, AA476547, C02267, and AA445910.
HLTB14	8529	527241	1-435	15-449	AI569948.
HLTB50	8530	954407	1-235	15-249	H38593, AA361336, Z99571, and Z83820.
HLTB58	8531	735194	1-364	15-378	AA521184, AA766096, AA743785, and AA361334.
HLTB56	8532	907024	1-513	15-527	R18278, R17529, AA361271, AA019429, T66081, F12334, and AW025272.
HLTB48	8533	753857	1-408	15-422	W78875, AA463793, R10150, AA814668, AA779112, R10157, AI351903, AA361232, and AC004554.
HLTB41	8534	712721	1-653	15-667	AA150350, and AA361174.
HLTB35	8535	707243	1-366	15-380	AA282169, AA987588, and AA360588.
HLTAM07	8536	954419	1-653	15-667	N45611, and AA360680.
HLTK57	8537	735163	1-213	15-227	W55847, T65532, F11980, AA255754, AA360399, and N45924.
HLTAA39	8538	710361	1-635	15-649	R73095, R26859, R73096, AA360390, and R27089.
HLTAA27	8539	684649	1-377	15-391	AA828265, and RW262531.
HLTMU01	8540	916641	1-484	15-498	AI076363, AA001640, and AA001228.
HLTMQ18	8541	666544	1-475	15-489	N55538, AA280889, AA095152, T90017, and AC008124.
HLTMZ09	8542	575837	1-458	15-472	T39190, and T40464.
HLMTT20	8543	830074	1-206	15-220	W42656, and AA077151.
HLMMR90	8544	575905	1-602	15-616	R22164, AI248937, AI084822, AI249135, and AA897402.
HLMMK61	8545	532605	1-492	15-506	AA8716681, AI361749, N77694, H65481, AA005280, H64888, AA005196, N58327, AA747865, R94521, AA677973, AI032897, R93670, H73820, H54422, and AC012627.
HLMMK50	8546	724485	1-196	15-210	AI120141, AF111168, AC005081, AI109798, AC004883, AI022476, AC006441, AC005071, AC005796, AC009263, AC002369, AL049569, AC006064, AL050341, Z98946, AC002430, U62293, AC006312, AI109628, AC006211, AC005189, AC005736, AC007384, AC006023, M29930, AC005057, AC004638, Z81364, AP000689, M29929, AP000248, AC005317, Z68756, AI023553, AC002400, AC004019, AI031289, AC007151, AI031686, AC007011, AP001053, AC004990, AC005225, AC005049, Z93930, AC005562, AP000210, AC005089, AC005332,
HLMMF01	8548	916816	1-496	15-510	
HLMMF43	8549	714439	1-619	15-633	
HLMTY59	8550	878870	1-342	15-356	

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HLMI657	8551	835799	1 - 473	15 - 487	R81607, and U34952.
HLMH780	8552	775382	1 - 432	15 - 446	H71175.
HLMH761	8553	742044	1 - 445	15 - 459	R70530, and AC006392.
HLMH749	8554	722191	1 - 448	15 - 462	T71093, T71030, AC004033, and AC007050.
HLMH66	8555	910804	1 - 353	15 - 367	AA313128.
HLMH603	8556	856859	1 - 171	15 - 185	T49381.
HLMFU46	8557	718075	1 - 430	15 - 444	AA033893.
HLMFL88	8558	574812	1 - 744	15 - 758	AA884878.
HLMFG79	8559	974552	1 - 220	15 - 234	
HLMFE91	8560	531212	1 - 439	15 - 453	AA229869, AA368329, H48017, AL065031, AL048002, H50031, AL348597, AA056206, H16875, AA704806, AL982994, AA374797, AL0251809, H44137, AA303289, T61362, R79396, AL591334, F23268, AA985145, AL114755, AA322161, AW377926, H73306, AL246386, AW377843, AW377863, AW193523, AL871691, AA361244, AA833828, AA640823, AW190277, AA588099, AA526337, AA424280, AL254153, AL52828, N71545, H91047, AL571094, AW089016, F26285, AL281622, AA670108, T54173, M78137, T40210, W27084, AL047666, AL476460, AW377907, AW377921, AP954464, AW377912, AA205911, AA071151, AL811319, AL337065, AA218835, H86579, AL627868, AW390278, N30650, AW081503, AW390250, AL254937, AL816537, AA425924, AA325466, AA310354, AL815583, AL130709, AL536838, AL537995, A W071109, AA613189, AA018923, AA012829, N47820, AW148775, AL814682, AL291439, AA351868, AA836097, AL376454, AL298079, N76059, AA831997, AL018029, AL909640, M77900, AW390555, AA298783, F31634, AA584756, AW023376, AL831172, AW341955, AL547558, AL270149, AA424008, AW247089, AA287502, AA550989, R70884, AL320095, C06028, AW029626, AL888050, AL251380, AW377894, AA181479, N91747, AL251949, AL252207, T90931, AL871108, R48131, AL160875, AL024439, AL251996, AL525979, AL254626, AL284684, AW272640, AA668220, AL499376, AL251353, AA515723, R70883, AL251298, AL255012, AW438551, AA565911, AL254440, AW377961, T48770, AW377862, AL251598, AA564753, AA700664, AL252933, AL469468, AA085554, AL235508, AL234658, A W440451, AA985194, H57324, AL241970, A W086319, AA282530, AL819391, AL627917, AL246059, AL255003, AA372389, AL254673, AA650455, H30595, W38437, A W086334, N92697, H44537, AA071045, AC006211, Z82176, AL035551, AC004671, AC004941, U62317, AL031775, U66060, U66061, AF075037, AC000353, AC005014, AB000462, Z68279, AP000689, AC007425, AL031120, AB003151, AC004216, AC004033, AC006948, AC007731, AC005500, AP000532, AC004611.

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				AT97595, AW007013, AL498775, AL986234, H09241, AA935139, AA948609, R44566, and Z99116.
				AA232886, and T81241.
				AL423013, AW058211, AA700642, AW027855, AT091117, AL673385, AW339470, AL161207, AA694181, AT026286, AL216865, H54304, H54097, T99459, T98863, AA669188, AW386076, and AB033044.
				N23041, AW380413, AA078090, AL048960, N28704, AC005088, AF030453, and AJ007798.
				AA742279, N80170, W03637, and AL031289.
HLME79	8561	531213	1 - 388	15 - 402
HLME17	8562	531218	1 - 137	15 - 151
HLMD62	8563	754076	1 - 322	15 - 336
HLMDX01	8564	921546	1 - 401	15 - 415
HLMDH08	8565	960055	1 - 814	15 - 828
HLMDC26	8566	684911	1 - 452	15 - 466
HLMDL59	8567	529908	1 - 586	15 - 600

HLMCJ55	8568	741635	1 - 425	15 - 439	N77018, AL016826, AW236861, AA429686, and AL623392.
HLMBX91	8569	879359	1 - 846	15 - 860	AA515440, AA601425, A W089625, AA659170, AA620554, TA7745, AA516038, AL050526, AW102811, AL040382, TO6754, AL110760, AA593471, AA523833, AA483204, AA440545, AT243789, AA961035, AA502104, AA633892, AW263415, AA640277, AF190465, U52112, AC005412, AC004019, AC003684, AL133163, AC004832, AC004223, AC007216, AC005696, U95742, AC004815, AC005231, AL031283, AC004966, AC005015, AC003101, AC004383, AC003695, Z97054, AC005081, AF109907, AP000045, AC005808, AP000557, AC007546, AC009516, AC008101, AF001549, AC002470, AF196779, AL021391, AC002425, AF007308, AL031311, AC009247, AC007055, AC002350, AL049761, AC007686, AC002312, AF196969, AC005071, Z98941, AC007666, AL117258, AC007225, AC004841, AC008079, Z83844, AL035413, AC004491, AC007011, AL049780, AC006530, AC002558, AC006511, AC003043, AC002477, AF165926, AC005031, Z84466, AC005529, AC002070, AL080243, Z85986, AC002565, AF053356, AC003070, AL022476, AL049709, U80017, AC002300, AC003037, AC005295, AC007731, AC004382, AC006088, AF038458, AL035587, AC005041, AL033659, AC004983, AL049869, AL035458, AP000555, AC005291, AC005102, AL003147, AC005488, AC006312, AC007676, AF134726, AC002996, AC007151, AC004922, AC003982, AC007227, AC006241, AL096702, AC005520, AC005500, L78833, AC008044, AC002543, AC004878, AC000353, AC004895, AL133353, AL121652, AP000704, AC002375, AC004985, AL109758, AL035455, AC002492, AP000134, AP000212, AC004596, AC004236, AL021977, AL022316, AC005280, AC002476, AC000025, AL031276, AC004797, AC002394, AC005005, AC006064, AC006283, U91323, AC008115, AC005399, AC005519, AL049829, AL008718, AC004884, AF217403, AC005722, AC002301, AL139054, AF111168, AL049776, AL020997, AC005837, AC005839, AL023803, AL033392, AL109984, AC007537, AC005920, AC005480, AP000553, AC008372, AC005702, AC006449, AL034420, U47924, AC008116, AL049540, AC004659, AC007298, AC004887, AC005902, AP000030, AC005736, Z99128, AC006512, AC007226, AP000088, AL121655, AC007421, AL034549, AC005921, AC006480, AC005899, AC000052, AC002302, AP000011, AL035450, AC004685, AC005695, AC002365, AC016025, AB003151, AL035681, AC005778, AC004967, AC006132, AC006487, AL121658, AC006430, AC007919, AC006014, AC004253, AC005225, AL049697, AC004000, AP000115, AC002045, AC006023, AP000556, AL031681, AC004821, AP000039, AC004645, AC004858, AC006111, AC006001, Z82189, AP000501, AL008726, AP000047, AC004150, AL021155, AP000345, AL132712, Z97056, AC005821, U91326, AC005209, AC016830, AC007371, AC005004, AL132712, AC004882, AL096701, AL031280, AL121825, AL050318, AC007387, AP000065, AF047825, AC007688, AL121603, AC006071, AC005585, AL023807, AC005180, AC004149, AC006121, AC005562, AC005940, and AP000248.
HLMBQ54	8570	730952	1 - 454	15 - 468	H72138, and AA394731.
HLMBQ48	8571	560848	1 - 400	15 - 414	AA505108, and N72195.

HLMBN04	8572	615620	1 - 340	15 - 354	T77272, F13388, and AF052103.
HLMAV56	8573	733708	1 - 340	15 - 354	AA234263, and AA262980.
HLMAI82	8574	523694	1 - 100	15 - 114	
HLMAE86	8575	852563	1 - 543	15 - 557	AA056759, A1870884, A1184256, AA287354, AL048819, AA780049, AA658119, AW083033, AW131126, AA812201, AA523491, A1955653, AA102847, A1420177, A1658829, A1860578, AA058437, AW439401, AA700175, AA527995, AW439499, A1299102, A1671747, AA102846, A1671722, AA884538, A1859388, A1813491, AA04770, AA975515, A1016255, AA452810, H22945, A1680317, AW263434, AA074105, AA452925, H09535, N78501, A1865742, AA847674, A1916285, A1310886, A1263292, R41868, A1868055, AA809214, AW439033, AA994606, AA682833, AA04702, AA287405, and A1597574.
HLLCD85	8576	783454	1 - 515	15 - 529	A1478306, A1161172, AA554537, W68698, A180170, A1085355, A1796561, A1571389, T70262, AA188734, N92493, AW385352, A1216082, AA1188572, A1141460, A1357387, AA489805, AA398636, AF108460, AF108461, AC020663, AF108455, and AF108454.
HLKDC76	8577	953502	1 - 1087	15 - 1101	AA161515, AW250345, AW364752, AW248279, AA173349, AA410730, T09386, N28872, AA281341, N33896, AA312252, A160094, T08124, Z45256, F07609, AA452741, R69813, AA380203, AA256741, N57212, Z43138, A1017337, F07095, T32695, W26853, T35905, AW204528, R14455, A1948689, AA682474, A1378863, AA378888, W27662, A1935695, A1928405, and AA910271.
HLKDB78	8578	773172	1 - 459	15 - 473	AW298414, N39216, AW004711, AW051893, A1375134, A1917477, A1652977, A1291261, AW002993, AW003527, A1016680, A1676093, AA668759, R49090, A1351891, A1498607, A1203099, AA068003, A1356617, A1950955, Z40923, A1783643, A1418750, A1189132, AF069532, and Y16521.
HLKDB02	8579	918870	1 - 458	15 - 472	T55231.
HLFAN30	8580	843294	1 - 442	15 - 456	
HLCDAG7	8581	887375	1 - 619	15 - 633	
HLKBBV11	8582	965170	1 - 528	15 - 542	
HLKBBP05	8583	928316	1 - 539	15 - 553	AA249141, AA317762, AA323439, R68885, AA657752, AA845804, AA443184, A1138096, AC006998, AC005406, AL022396, AC003029, AC004381, AP000008, AP000704, AL021367, AL031595, AC004106, AC008012, AC004087, AP000503, AF134726, AF134726, AL034421, AL031274, AC002528, AC006536, AC006077, A1133246, AL034371, A1031733, X54486, AL031650, AC000052, AC004033, AC007731, AC005500, AL034345, AL022098, AC004832, AL079299, M26434, AC004231, AC004383, AC005243, AF099810, AC003101, AC020663, AC005354, AC005722, and AC005261.
HLKBBP05	8584	928316	1 - 539	15 - 553	A1436366, and H81947.
HLKDAL06	8584	934160	1 - 527	15 - 541	A1039905, AA826224, and AA911597.
HLKBAJ12	8585	969644	1 - 648	15 - 662	AA742235, AA742234, AA769592, AA828385, and AA804905.
HLKBA02	8586	918568	1 - 584	15 - 598	AA524543, H28219, AA482728, and AC006486.

HJUBA59	8587	888006	1 - 631	15 - 645	AI971330, AI266060, AI870369, AA025208, NA8096, AI673475, AW058505, AI864572, R08870, R38658, F10568, R08976, AI887853, AI400250, AI810202, and AA701175.
HJTRB51	8588	470587	1 - 486	15 - 500	AA648882, and AA357310.
HJPDK80	8589	418622	1 - 902	15 - 916	AA210877, AT97681, AI970134, W86482, AA070750, AA214621, AA977114, W86632, AA252120, AA902411, AA742986, AA242915, AA579700, AI468181, AA376316, AW015483, AA811628, AI928274, AT999954, AA040813, AA213789, and AF001549.
HJPDK57	8590	768274	1 - 686	15 - 700	
HJPD16	8591	518105	1 - 343	15 - 357	H29753, AA011703, AI341972, AA477868, AI813605, AA581094, AW027687, AW193238, AW193131, AA101402, AI565781, AI808069, AT475759, AI298622, AI356540, AI148214, AA156318, R50132, AA516279, AI347078, AI161316, W04405, AI635124, AA853039, R22251, N89768, AI248905, AA873149, AI149506, AW088640, AA701646, R39722, H42776, N95630, AI567992, AI591326, AT141983, R70062, W29112, R31096, AA399446, AW405653, AA011503, AW003643, AI628885, AA876220, W262885, H54242, AW338832, AA353094, AT143381, AA453197, AI188538, W69801, AA282034, AA513733, AA374524, AI088462, H97805, W67620, AW068409, AW368994, AA034935, AA781354, AI933502, W23274, AW374523, R74587, H96595, AW374544, AA477759, AI052491, AA707033, AW051399, AW075651, R92048, AI583545, AI418411, AI888034, AI911293, AW167110, AT735231, AW167100, AI087842, R70016, AA430524, AA535808, HI0643, AI828406, AI625243, AA335826, AI921041, AI375407, AW371892, AA775632, AI034439, AA011693, AI572578, AA861696, AI937166, AW075601, AA740399, AT720285, AW292885, H96596, AI525221, and AI035413.
HJPD23	8592	574115	1 - 231	15 - 245	
HJPD82	8593	857401	1 - 990	15 - 1004	AA455589, AI091855, AA988340, AA161359, H42568, R07607, AI015867, R07600, R07602, AA441957, AI936472, and AI291961.
HJPCW09	8594	536677	1 - 234	15 - 248	Z44259, H07973, AB015348, AI137622, AI133072, AL133048, AL133040, AJ132440, AJ243706, and AF087481.
HJPCV54	8595	733607	1 - 575	15 - 589	AA402378, AA464262, AI885402, AI829944, AI921923, A W008540, AI074307, AI005213, AI479060, AI091416, AI684266, AW410641, AI924538, AW337968, AW170092, AW028819, AW242087, AA873160, AI362816, AA857987, AA745265, AI991184, AI222764, AI972124, AI161220, AI538743, AA609827, AI139793, AI336176, AI075402, AI829318, AA443894, AI609956, AI598268, AW194155, AI446095, AI096558, AA838514, AA431854, AA873436, AA864636, AW387090, AI241070, W79486, AA704924, AA872815, AI086820, AI139048, AI151109, AA937584, AI028016, AI805600, AI434504, AA770528, AI619841, AI872263, AA394128, AI090476, AW117881, AI348212, AI027063, AI355882, AI074246, AA488987, AI469710, AA576443, AI304813, AA832041, AA477555, W81550, AA640236, AA536177, AI351451, AI187174, AI368869, AA916469, AI635832, AA488766, F37944, AA724420, AI187204, AI359194, AW387107, N95198, AI827052, AI961866, AI632947, AI346208, AI285018, AW169451, AA431853, AI266343, AA897757, N54144, W52694, AW105713.

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HJPC54	8596	871807	1 - 734	15 - 748	N95260, and AI668689.
HJPBP22	8597	577455	1 - 133	15 - 147	AI863962, H87372, AF005418, AF115769, Y12657, and AF199462.
HJPBA04	8598	615585	1 - 472	15 - 486	AI8136250, AI024917, AI017124, and AA730431.
HJPAZ91	8599	882668	1 - 523	15 - 537	N32734, R67770, AA057568, AA326169, AA322393, R49744, N23508, Z46028, AI360953, R35017, and AF151800.
HJPA56	8600	909242	1 - 221	15 - 235	AA205091, and AC003002.
HJPA11	8601	967599	1 - 543	15 - 557	AI985517, and H75687.
HJPA179	8602	781697	1 - 311	15 - 325	AA278629, AA215509, and AA031467.
HJPA638	8603	709103	1 - 425	15 - 439	N23069, N25298, N25305, and AA356922.
HJPA60	8604	586675	1 - 523	15 - 537	AA044789, AW371891, AA297755, AA044810, AI150008, AA993400, and AI420327.
HJKSC6	8605	578366	1 - 459	15 - 473	
HJBDM21	8606	793381	1 - 437	15 - 451	
HJBDL70	8607	757378	1 - 697	15 - 711	H48668, H48397, R98819, H48501, AA306570, AI431664, T89386, and AB011178.
					AA306768, T75462, R13593, F13160, AA479890, W22183, C14389, D80022, AA305578, D80043, D59610, C14331, D58283, D80241, AW177440, D50995, D51423, D59467, D80195, D59859, D51799, D80166, D80227, D59619, D51022, D80210, D80391, D80164, D59275, D80240, D80253, D59787, D59502, D81030, D80212, D80196, D80188, AW177501, D80219, AW17511, D59927, C15076, D80269, D80024, D57483, D80038, D80366, C14429, AA305409, D50979, D59889, D80193, AA514188, D80378, D51060, D80268, AW178893, T03269, AW352117, D80045, D81026, D80248, D80522, AW179328, C75259, C14014, D80251, AW378532, AA514186, D80133, AW360811, AW178775, D58253, AW377671, D51250, AW178762, AW352158, C05695, AW375405, AW360844, D80134, D80132, AW178754, AW177505, AW366296, AW360817, AW375406, C060847, D80134, D80132, AW179332, AW377672, AW179023, AW178905, D80302, AW352170, AW179024, D59373, D80168, AW377676, AW352120, F13647, AW360841, AW190200, AW178909, AW177456, D80439, AW178906, AW177731, AW178907, AW179019, AW179018, C14407, AW178971, D51079, AW378540, C14227, T11417, D81111, AB905856, AW178980, AW179004, C14298, AW179329,

HIBD G36	8608	607769	1 - 593	15 - 607	
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			15 - 425	AA112809, AA306231, AA307255, AA668156, AL199709, and AB032255.
HJBC63	8609	745286	1 - 411	AA306061, AL096918, AL264057, AL288905, AA888803, AL179591, AL473333, AL582909, and AA888914.
HJBD A11	8610	967480	1 - 889	
HJBCZ05	8611	925805	1 - 855	AA312842, AA305846, AA931807, AA470048, AL800098, AA983700, AA983708, AA737820, AA922195, AA416876, AW194609, AW376741, AW363086, AW197591, AA442519, AL185740, AL282285, AP954659, N47199, AA773604, AA397353, AA640513, AL149726, AL479754, AL654305, AA837000, AA744021, H73550, AL792377, Z97239, AL120004, AA318894, AA516193, AA279385, AA515733, AL805439, AA209208, AA533054, AA669560, T26476, AL343169, AA445908, H94751, AL0070456, AL697425, AA862953, AW150387, AA215470, AL1718462, AL866580, AL767983, AL683116, AL040374, AA058835, AA078469, T94072, AA325593, T94140, AA669185, AA084230, AL654520, AW029515, AA504951,

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HJBCM55	8612	732411	1 - 463	15 - 477	AA312262, T83797, AA161328, AA932331, AA679030, AI992290, AI827943, AA431880, AI802124, AI827814, AA431881, AA878982, AA569021, AA862891, AI194363, and Z56903.
HJBBG54	8613	728810	1 - 591	15 - 605	AA278413, AA232658, AA234388, and AA356464.
HJBBF02	8614	921242	1 - 1153	15 - 1167	T64492, H80456, AA102097, T64635, W24542, AA356419, and AI650492.
HJBBE51	8615	725948	1 - 479	15 - 493	N48203, AI718419, AI825815, AA779543, AA356389, AI089156, and AI970766.
HJBBE07	8616	954376	1 - 459	15 - 473	AA069386, and AA356239.
HJBBD59	8617	739633	1 - 506	15 - 520	HI0612, AI435635, and R38602.
HJBAAP94	8618	796835	1 - 526	15 - 540	AA090056, N76005, AA355858, AA090057, and AA339543.
HJAC160	8619	577525	1 - 553	15 - 567	N23583, AA331407, and R70050.
HJACH13	8620	660943	1 - 362	15 - 376	AI675755, AA927858, AA861302, AA766862, AA311232, AI04365, AI004795, AA759118, AW271173, AI052339, AA853966, R37476, Z40307, AW269006, R41401, and AB002296.
HJABZ11	8621	967665	1 - 436	15 - 450	AA445925, AA310604, AA452033, AW275497, and AW026774.
HJABX39	8622	709556	1 - 686	15 - 700	AI916225, AA310505, W79834, and W79117.

HJABQ75	8623	567249	1 - 1088	15 - 1102
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HJABK84	8624	783237	1 - 657	15 - 671	N26671, AL826768, N39824, N22700, AW452772, N31174, F05933, AL1690795, AA852538, AA309729, AL274627, AW166599, AW195751, and AA300297.
HJABK16	8625	667399	1 - 786	15 - 800	AA210697, AA309665, AA210819, D80022, D80195, D80227, D81026, D80248, D80439, D80269, D80038, D80164, D59502, C14389, D80045, AA514188, D59467, D59275, D80212, C15076, D80166, AA305409, D59619, D80210, D80240, D58283, D80193, D59859, D80391, C14331, D59787, D51423, D51799, D80253, D80043, D81030, D80302, AA305578, D80219, D80196, D50979, D80024, D80366, D80188, D80522, D59927, C14014, D57483, D59610, D80378, D51060, D80133, D51022, D59889, AW377676, AA514186, D50995, AW360811, AW377671, C14429, AW177440, D80268, D80251, D80241, AW178893, D51759, T03269, AW375405, AW360844, D80247, D80949, AW178906, AW179328, AW366296, AW177501, AW177511, AW360817, C75259, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, AW378532, D51103, D80157, D80132, AW177505, C05695, AW360841, D59373, AW178775, AW178909, AW352170, AW177731, AW178907, AW178762, AW178754, AW179019, AW179018, AW179024, AW352117, D51250, D80134, AW179020, C06015, D58253, AW177456, AW367967, AW179329, AW369651, AW178980, AW177733, AW378858, AW178908, AW352158, AW178971, D59695, AW176467, AW178983, AW352174, AW179017, AW179004, AW179009, T48593, AW179012, AW178914, AW378543, AW378525, AW352163, D59503, D80168, F13647, T11417, AW178774, D59653, D59627, AW352120, D80258, T03116, AW178911, AW177722, D58246, AW10186, AW177728, C14227, AW360834, D58101, D80064, H67866, AL525923, C14298, D45260, AW05856, D81111, C14407, C14077, AW178781, AL525227, AW378540, AW367950, AA809122, C03092, H67854, D59317, AW177723, AW177734, D51213, AW178986, AL535850, D45273, AL535686, C14344, Z21582, AL525917, AW177508, D80014, D59551, C14973, D59474, AW378533, D51221, AW178977, D60214, C14046, AL525920, D60010, T03048, AL525925, AA514184, AA285331, AL525215, D51097, AL557774, H67858, C14957, AL557751, AW378539, AL525242, AL525253, AW179013, AL525237, C13958, AW178759, AL525912, AW378542, D51066, C16955, C05763, Z33452, T02974,

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HJABB93	8626	791435	1 - 716	15 - 730
HJAAZ32	8627	699727	1 - 371	15 - 385
HJAAV85	8628	783412	1 - 215	15 - 229
HJAAR02	8629	921105	1 - 279	15 - 293
HJAAO07	8630	954263	1 - 447	15 - 461
HJAAO22	8631	779388	1 - 449	15 - 463
HJAAA83	8632	928841	1 - 660	15 - 674
HILBQ12	8633	971556	1 - 346	15 - 360
HILBC52	8634	906873	1 - 320	15 - 334
HILBC17	8635	667204	1 - 465	15 - 479
HHEZZ74	8636	934486	1 - 1616	15 - 1630
HHEZT12	8637	969437	1 - 438	15 - 452
HHEZO92	8638	942859	1 - 881	15 - 895
HHEZNG1	8639	973136	1 - 698	15 - 712
HHEYE64	8640	973232	1 - 661	15 - 675

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HHEX005	8641	930794	1 - 1666	15 - 1680	AW361847, H10130, H20868, AI480290, AI193053, R32259, AI459029, H09428, AA453532, AP007803, AI049444, W24783, AI144350, AL122091, and R26514.
HHEW008	8642	974405	1 - 516	15 - 530	AW148792, AW276827, AI687260, AI613280, AA579366, AI860013, AI564020, AA577906, AI350211, AW193265, AI364026, AW438643, AA483771, AW088058, AA713891, AI036037, AA189117, AI744995, AI431303, AI284640, AI281881, AI270117, AA658362, AI688846, AI061186, AA654761, AA599920, AW193432, AI375710, AI619997, AA613232, AI688468, AA584167, AA490183, AA087425, AW029038, AI962050, AW303196, AW274349, AW274346, AA635442, AL046409, AI55224, AI801591, AI583283, AI345654, AA526758, AI289067, AW301350, AA938105, AI121235, AI29531, AI339850, AA594145, AW408707, AW050498, AI341664, AA808877, AI324164, AA525824, AW419262, AA908468, AA376519, AA664015, AI281903, AI379719, AI287451, AA716348, AA126777, AW406447, AW261871, AA071393, AI134972, AI798489, AA719805, AI382614, AA446657, AA719292, AA526779, AA488746, AI061143, AA601876, AI017024, AI439210, AA350859, F17891, AW089322, AW738086, AI334435, AA167659, AW238542, AI754955, AA346454, AI686962, AA351503, N94233, AA351036, AA577959, AW302450, M86143, AA973803, AA639248, AA586458, AA613227, AA632868, AI358571, AI678316, N29948, AI341548, AW276701, AI040313, AI910609, AA744031, AW072587, AI002834, AA568778, AL044940, AA621858, AW341900, AW073470, AA744077, AI504871, H72402, AI432270, AA776258, AW162049, H85382, AL041706, AA846952, AI370878, AA095074, AA758934, F33795, AI653221, AI986251, AA813902, N29941, AA593247, AI022165, AC002451, AC020663, AP000355, AC005015, AP000328, AC005730, AC003016, AP000512, AP000170, AP000055, AP000123, AC006975, AC004447, AC008372, AC006285, AC002045, AC002549, AC002476, Z97195, AL031584, AC005154, AC005057, AI121655, AI121603, AC004953, AC005074, AC005242, AC006275, AC007030, AC005632, AC002310, AL049643, AC005527, AI080242, AC005694, AC007877, AC004755, AI078463, AF166970, AI078477, AC005740, AC005358, AC007011, AC002307, AC005529, AI049795, AF123280, AC004098, AC005839, AC004947, AF123462, Z97196, AL050308, U72787, U66059, AB020872, AC004381, AC003007, AC004890, AC006333, AC000025, AC004152, AC002077, AI088716, AC016025, U57005, AC004519, AI031575, AC005678, AF003627, AC005746, AI035697, U07562, AL049845, AC004865, AC006040, AI049776, Z98051, Z84480, AC006208, AC005412, AI049742, Z81364, AC012599, AC007363, AC008115, AC006017, AL022311, AC005829, AI031650, AL110292, Z73358, Z82097, AI096791, AF188025, AL008709, AI031054, AC004686, AC004699, AC004477, AC005909, AC006211, AC004960, AC002308, AC004859, AC007878, AC002543, AC002412, AC002430, AL021940, AC004855, AL022323, AP000117, AI109623, AC005150, AF001549, AC006116, Z98304.

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				R25694.
				R31253, and N76374.
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HHETN89	8656	786361	1 - 674	15 - 688	W79658, and A468892.
HHETN03	8657	923009	1 - 630	15 - 644	<p>AC005017, AL035690, AL031427, AC006017, AC006031, AC004882, AC008126, AC005696, AL133238, AC005191, AC007784, Z85996, AC006312, D84394, AC005529, AC005146, AL022397, AC006597, U51022, AF188024, AC000025, AL049766, AC007486, AL035361, AC005527, AB014077, AC005778, AL034430, AC007999, AC005365, AC004486, AL0800317, AC009247, AL049837, AL022323, Z98950, S75201, AC004191, AC007387, AC005539, AB011542, AL049632, AF084941, AC006162, AC000392, AP000251, AP000030, AP000211, AP000133, D87009, AL109627, AC009286, AC003003, AC005324, AC004887, AC005081, AF069291, AC005015, AF117829, AL022143, AC007617, AL223364, I51997, Z82181, Z49866, AC006277, AP000300, AP000113, AC004408, Z93241, AC005754, AL121653, U91326, AC002544, AP000553, AC009516, AC005089, AC004770, AC005720, AP000045, AB020866, and AF110465.</p>
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HHSS93	8662	791729	1 - 743	15 - 757	N50846, N45661, and H40596.
HHQV46	8663	718640	1 - 557	15 - 571	N57265, AA282692, AL242959, H71719, H75784, and AW183081.
HHQV70	8664	952452	1 - 2385	15 - 2399	AL760464, AT767592, AL638548, N32912, AL807501, AL741842, AL279458, AW044672, AL274099, AA431728, AL631609, AL634431, AL139981, AL627630, AL096928, AW451355, AL631656, AL081396, AL796487, AL936118, AA525762, AL221786, AL640766, AW062345, AL207996, AA559026, AL798316, AW452771, AL214760, R60899, AL084691, AA516035, AA504631, AL077969, AA711793, AL339473, AL080052, R21999, R64203, AL287970, AW073288, AL352433, AW083740, W31679, AL280486, R69571, AA258401, AA063284, AC302159, AA758823, N69911, AA935191, H09080, AA040796, R64109, AL424748, N62769, AL823758, R33811, AA933822, AL347371, AL673707, AL673708, AA764746, Z38855, AW071057, N42054, AA747629, AA019766, AL783475, R21998, C01887, and AA507164.
HHQV75	8665	973104	1 - 515	15 - 529	AA083528.
HHQV50	8666	723930	1 - 455	15 - 469	R22320, and R22319.
HHQV53	8667	727812	1 - 690	15 - 704	

HHEQH22	8668	723305	1 - 357	15 - 371	H84643, A1688153, AA481647, A1869837, AW361991, AW029303, AA481414, N34803, AA857012, A1360148, AC006050, AF072926, AF047438, and U49841.
HHEQCS9	8669	786603	1 - 474	15 - 488	AA210815, and A1939420.
HHEQC26	8670	679505	1 - 514	15 - 528	AA203563, and AC005164.
HHEQB39	8671	738866	1 - 735	15 - 749	A1003508, A1733556, A1792286, A1792327, A1696480, H28915, A1810218, AA679636, A1974520, AW105710, A1018653, AA678645, AA825445, A1078475, AP000025, AP000026, and A1050302.
HHEQB23	8672	675500	1 - 145	15 - 159	R94836, and AA577023.
HHEPW95	8673	588266	1 - 274	15 - 288	
HHEPW40	8674	588265	1 - 363	15 - 377	
HHEPW11	8675	966789	1 - 347	15 - 361	AA487512, A1697235, A3382130, AA528634, AW316599, H62537, A1345704, A1345794, AW161459, AW161879, A191343, A1003797, AA936548, AA526032, A1084431, T92788, A1360690, AA856938, A1808173, A1114739, A1446500, AA650108, A1978931, A1886224, AA745570, AA093114, AA299422, R76735, A1697242, A1690474, A1583677, A1692245, A1697239, AA507631, AA494253, AA458732, T06876, AA789098, AA069926, N25034, AA554389, AA668945, F28736, A1047645, A218835, A1922583, A1623741, AA4350375, AA360015, AA209436, A1298557, AA907192, AA808843, AA569494, AA808847, A1358514, AA652675, AA886227, A1045107, AA826006, AA148800, AA148531, A1749301, AA773302, AA320722, A1689198, F33184, AA482693, T90014, A1026710, A1829381, H78921, AA666327, AA493618, AA338216, N38803, A1753549, A1934548, AA578245, A1537023, A1246386, A1560228, AA089952, A1753969, H78281, A1580018, T87818, AA778826, A1910247, H24953, A1150848, AW008231, AW377907, AW377921, A1922805, AW377912, AA303770, A1524712, A1079869, A1929738, A1686563, AW163602, AW162887, AW390555, A1616266, F18394, A1274684, A1045451, A1W390278, A1139971, AC007055, AC005844, A1049748, AP000432, AC004217, AC004225, A1034420, AC002312, A1034400, AC016831, AC005585, AC001228, A1096801, AC005531, A1096773, AC005215, AC004838, AC007444, AC004004, A1109839, A1009031, AC002326, AC004477, X76775, Z96104, AC002470, Z93023, AC005516, Z95152, A1132987, AC004997, AF109907, AC000353, AC005280, AC004854, AC004531, AC034371, A1135744, AC007911, AC008119, AC007917, AC003043, AC005200, AC005553, AC007786, AC004999, U80017, AC006071, Z98950, AC004495, AC007964, AC007370, AC005318, AC005409, A1031681, Z97053, AC006101, AC004925, AF017104, AC007182, AC000379, AC004257, U41384, AC005027, A1049780, AC007226, A1211852, A1022322, AF190465, A1135745, D86992, AC006055, M20902, AC009501, Z49154, AF090931, Z98754, A1133371, A1021578, A1133396, AP000066, Z73359, A1035072, A1121892, AC004638, AC005261, AC005736, D88270, AC005902, AC004234, AC004821, A1035660, A1049631, AC006432, U73627, AF061779, AC007671, AC004923, AC007151, AC005839, AC002073, AC005332, AC000087, AC006441, AC008072, AC000071, AC004960, AC004216, A121655, A1049709,

HHEPT05	8676	912266	1 - 2504	15 - 2518	<p>AL022311, AC004832, AF196971, AB003151, Z98949, AC005781, AC000032, AC007214, AP024533, Z54146, AC007192, AC004841, AL034376, AC002425, AL031257, Z83834, Z68870, AC002511, AP000503, AC006126, AC004622, AL021807, AC005308, AC0005697, AL035706, AC003046, AC005670, AF200465, AC002483, AC004149, U920332, Z84489, AC007308, AC004755, AC005859, AL031005, AC004605, AC005598, AC005702, Z62434, AC004943, AC005088, AC004554, AC004520, AP000317, AC005549, AF134726, AC002364, AP000119, AP000051, AP000166, AC005800, AC002558, AC007372, AP000696, AL096705, Z84487, AL121603, AL080243, AC005083, AC007346, AL049837, AB000882, AC004647, U95739, AL035702, AC005479, AC003663, AC006166, AL031133, AC004935, AC005529, Z84466, AC003956, Z97181, AC005922, Z82206, AC007687, AC006536, AL023775, AL031289, U73628, AC007688, AC008055, AP000501, X87344, AC004104, Z98742, U91318, AC004636, AC005899, AC005360, AL031733, Z93930, AC004024, AF111168, AL008715, AC006040, AC005796, AC006487, AC007221, Z75887, AL049759, AC006379, AL133216, AC002038, AC005232, Z99716, AC002316, AC003029, AC004949, AC004918, AL049589, AL049643, AC004382, AP000667, AC005880, AC006396, AC005829, AL023494, Y12855, AP000689, AC004383, AC006544, AL031664, AC0005793, and AC005921.</p> <p>AW069598, AW131635, AL1669446, AL1669022, AL1968479, AA628971, AA928346, AA828393, AL245982, AW305033, AL199953, AL1478692, AW276504, AA653293, AL082346, N57490, AW264574, AA583342, W72055, AL1887350, AW268530, N68244, AW130656, AW131233, AL1819853, AA253240, AA167004, AA491296, AA171704, AW273451, AA890295, AL131699, AL061332, AL1373431, AL262352, AW196819, AL253535, AW243718, AL1831015, AA683296, AA846151, AW136619, AL169009, AL942247, AL302629, AL379246, D29081, AA559892, AA722978, AL128087, AW023413, AA287414, AL433493, AA720906, AW130662, AA643506, N77877, AL253623, AA463439, H24406, AL924613, AW192204, AA397433, AA989368, R46595, R24070, AW089044, W05834, T15472, AL265964, T65426, AL749288, AL923627, AW020937, AA855107, AL378942, AL276045, Z45625, T16609, F09478, AA364112, AL984324, AA961110, R77605, AA402444, AA834097, RS8443, F05807, R24122, AA650077, AA658384, AL971866, AL327416, R77606, AL171628, H22552, H43755, and AA720957.</p> <p>AL138265, AL679782, AL687343, AL048925, AA181773, AL046490, AL042753, AA749158, AL963720, AL431303, AL696962, AW193765, AW327868, AW303196, AL279417, AW274349, AA847499, AL623720, AL696955, AW301350, AL270117, AL345654, AL044940, AL801482, AL038705, AA581903, AL281881, AL754253, AL037714, AL041690, AL312309, AA515728, AA720702, AL138455, AW085790, AL986165, AA490183, AA846935, AL061313, AL119984, AL101689, AA470969, AA491814, AW438643, AW276827, AA577906, AA569471, AW088202, AL704393, AL192631, AL723017, AL570261, AL610920, AL249997, AL270559, AA857486, AL457397, AA587604, AL635440, AL261858, AL110770, AW408717, AL559705, R98218, AL679045, AA469451, AL649642, AL246119, AW072587, AL610607, AL962050,</p>
HHEPT03	8677	923410	1 - 1057	15 - 1071	

				AL038703, AA613227, AW301809, AL049709, AL350211, AL358501, AW238383, AA551552, AL298710, AW062724, AT732151, AA482768, F36273, AA586458, AW088718, AA515224, AT754955, AA610493, AA533036, H71429, AW338086, AB951863, AW162049, AW193432, AC003353, AC006211, AC005829, AC004895, AC005527, AC005081, AC002565, AC001659, AC005295, AC004746, AC005399, AL049780, AL096791, Z98884, AC0005971, AF001548, AC0005112, AC005920, Z97054, AL049636, AC004883, AC004638, AC002300, AC006312, AC004963, Z98742, AC005015, AC005837, AC004887, AF111169, AC016831, AL035684, AC016830, AC005102, AC005488, AL033527, U91321, Z98743, AC005666, AC002425, AC002470, U95742, AC004491, AL080243, AP000697, AB020865, AC003101, AL050332, AL031668, AL121653, AC007011, AC005003, AF001549, AC005562, AP000555, AC002288, AC006057, Z84487, AL034417, AL133244, AL049869, AF053356, AC004605, AC005071, AL035089, AC002304, AC007637, AC006285, AC005261, AC007284, AC002492, Z95152, AC004821, AC007216, AC002310, AC007151, AP000501, AC005578, AC006966, AC007298, AC004228, AC004032, AP000553, AC004686, Z95930, U78833, AC005209, L44140, AJ003147, U80017, AC008372, AL022330, Z95114, Z83840, AC005067, AC005880, AL020997, AC004967, AL023807, AC000025, AC007193, AP000350, AC002302, AC009516, AC005237, AC005632, AC004253, AC004383, AC002352, AF064861, AB026898, AF107885, AP000688, AL117238, AL022329, AC000556, AC005736, AC0006512, AC006461, AF107550, AC004876, AL109839, AL050307, AP000556, AC005736, AC0006512, AC006324, AF030876, AC016026, AL049776, AC007114, AL035419, AC004675, AC006449, AC004019, AC006538, AC007541, AP000493, AP001053, AC002477, AF031078, AF088219, AF111168, AC005919, AC005529, AC004803, AF196969, AL050318, AL035079, AC002365, AC007066, AC005082, AC007030, AC005377, AC004841, AC005790, AC005914, AL133448, AC004033, U91322, AC003950, AL031311, AC006064, Z84484, AC002404, AF109907, AC004230, AL121652, AC004522, AC005940, AL031432, AP000689, AC002395, AC006023, AC002070, AF196970, AL109628, AC004966, AC004991, AL034343, AC005531, AB003151, AL008725, AC007050, AC002063, AC005680, AC006581, AC004531, AC006120, AL024509, AL031846, AC006251, AL035455, AC016025, U95090, AC007225, AC016027, AC005730, AL109738, AL049709, AL049760, AC012085, AC005049, Z83822, AC006101, AC004938, AL034420, AC005011, AC006344, AL034549, AC006115, AC007055, AF196972, AF196971, AL009181, AC005622, AP000512, AC004659, AL035415, AC005799, AC005154, AP000511, AC004878, AC002558, AL049539, AF037338, AF134726, AC006212, AC005899, AL008718, AL133249, AC005859, AC004771, AL031587, AL031291, AP000355, AC003007, AC007842, AL079342, AL021707, AL109984, AL049759, AC004257, AC005089, AC005544, AC007308, Z94056, and AC005280.
				W56087.
HHEPN71	8678	588241	1 - 721	15 - 735
HHEPM69	8679	588235	1 - 372	15 - 386

HHFPG62	8680	877268	1 - 814	15 - 828	AW007647, AA40428, AA425770, AA702540, AA953885, AA256277, R67851, Z38978, R41246, H41898, Z19699, D62705, A1541468, A1133113, and A15286.
HHFPG59	8681	925436	1 - 529	15 - 543	AA521097, AW268594, AA917092, AA703191, A1580848, A1043152, AW002653, A1146275, A1275894, A1611051, AA029718, A1699998, A1092449, A1242378, Z38987, A1760326, T81076, AA248753, AW393578, AW393562, and T81124.
HHFPG21	8682	956241	1 - 463	15 - 477	A1650932, AW183419, and AW187800.
HHFPG81	8683	588155	1 - 353	15 - 367	N57024, AA412609, AA446493, AA446313, AA412274, AA417161, A1206458, A1024531, A1027971, and N29332.
HHFPG63	8684	744995	1 - 521	15 - 535	T75517, R99167, and T99393.
HHFPG52	8685	919775	1 - 361	15 - 375	AA916859, R08108, and A1031120.
HHFPG11	8686	887661	1 - 389	15 - 403	AA216412, Z199179, A1285753, A1924872, AA442105, A1174766, AA635739, A1250083, A1311684, A1805363, A1254279, A1133164, AA729282, AA491449, AA489996, T60940, AA420877, AA490183, AA420452, A1133297, A1223604, A1041619, A1310780, AA493695, AW080777, AC005620, AP000432, A1049795, AC005011, Z97054, AC006079, AC003071, Z95331, AC002073, AC005102, A121658, AC016831, AC007227, A1021546, AC007938, AC005666, AP001053, AP000556, AC006137, AC006430, AC007226, AC006538, AC005231, AC007688, AC016027, AC007564, AC008055, AC005291, AC003030, AC005244, AC002539, A1022165, A1096701, AP000252, AC004562, AC009399, AC005067, A1049569, U85196, AC006312, AC004263, AP000212, AP000134, AC004491, AC012085, AC008079, AP000043, AP000111, A1035420, AC004796, A1008715, AC007057, AC005899, AF039907, A10311680, AC004999, Z93023, A1021707, AC002126, AC005410, AC006241, AC004234, A1035410, A1049631, Z93930, AC005484, A1024474, AP000251, AC005800, AC006101, AC004149, AC004531, AC006131, AP000688, AC004882, AP000300, AC005874, A1134471, AC005412, A1000661, A1035587, AC005722, AC004815, A1003147, Z98051, AC016830, A1022724, A1122021, AC005480, AP000689, A1031577, AC005049, Z83826, D84394, AC007567, AC005200, AP000030, A124523, AC004985, AC005921, AC005243, Z97056, AP000113, AC007566, AP000692, AC006511, AC004056, AC005940, A1024533, Z97056, AC004876, AC005189, A1031588, A1031685, A1031848, AC002464, AC005821, AC005225, Z97205, AC005004, AC008067, A1049779, A1031432, AC003982, AC005088, AC002404, AC004910, AC007676, A1008583, U62319, A1049872, AC002119, AC009247, AC005837, AC006581, A1031584, AC005015, A1078584, A1031666, U80017, AC006211, A1009181, AC004408, AC007066, AC005971, A1021918, AC004832, AC004067, A1021578, A1034419, AC007686, AF038458, AC006948, A1135783, A1008582, AC006011, AC004953, AC004973, A1022323, AC007792, AC007876, AC005257, AC005988, A1031274, AC002429, AC004801, A1050318, AC006039, AC004859, AP000065, Z93241, AC005630, AC005280, Z82171, A1022316, AC006509, AC007040, Z99716, AC002477, AC002094, AF049895, AC005839, U52111, AC006126, AC004383, A1096791, AC005300, AC006449, AP000112, AP000044,

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HHENQ08	8687	959262	1 - 431	15 - 445	H68621, H80833, and AC004622.
HHENK21	8688	858290	1 - 798	15 - 812	AA6311620.
HHENJ29	8689	690576	1 - 488	15 - 502	AL157399, AL813392, AL769194, AA490985, AA648531, AA971925, N90859, AL074897, AA886373, and AA609916.
HHEND53	8690	728111	1 - 500	15 - 514	H22946, and Z38737.
HHENC71	8691	757844	1 - 530	15 - 544	W95913, and AC0030390.
HHHEM266	8692	586737	1 - 432	15 - 446	AW340990, AW270170, AA913381, AW392670, AL119341, AL119319, AL119457, AL119324, AL119484, AL119391, U46350, U46347, Z99396, U46351, U46341, AW372827, AW384394, AL119497, AW363220, AL119363, AL119355, U46349, AL119483, AL119443, AL119522, AL119439, AL119444, AL119399, AL12131, AL134920, AL037205, AL119401, AL134531, AL119396, U46346, AL119335, AL134527, AL134536, AL119418, U46345, AL134538, AL119496, AL134533, AL042975, AL042544, AL043019, AL042984, AL042433, AL042542, AL042614, AL042965, AL043029, AL134529, AL042450, AL043003, AL042551, AL119464, AB026436, AR066494, AR054110, AR0660234, A81671, AR069079, and AR043113.
HHHEMW78	8693	773507	1 - 725	15 - 739	AA251113, AA766300, AA631948, AA703557, R94607, AL119319, R94247, AL042551, AL119418, AW392670, Z99396, AL119457, AL119324, U46351, U46350, AL119497, AL119522, U46347, AL119484, AL119391, AL119443, U46341, AW372827, AW384394, AW363220, AL119355, AL119363, AL037205, U46349, AL119401, AL119439, AL119341, AL119444, AL119483, AL119335, AL134525, AL134536, U46346, AL134528, AL119396, AL134531, AL12131, AL119464, AL042544, AL119496, AL134902, AL119399, AL043019, AL134538, U46345, AL042450, AL042433, AL042542, AL042614, AL042984, AL043033, AL042965, AL042975, AL043029, AL043003, D86604, AB026436, AR066494, AR060234, A81671, AR069079, AR054110, and AR069079.
HHHEMV01	8694	916281	1 - 262	15 - 276	R95819, H61040, H61032, and AC003681.
HHHEMQ08	8695	752326	1 - 140	15 - 154	AC006991, AC008175, and AC007967.
HHHEMQ48	8696	493733	1 - 534	15 - 548	
HHHEMN37	8697	708468	1 - 205	15 - 219	
HHHEMK77	8698	772115	1 - 255	15 - 269	

HNEMK26	8699	681595	1 - 458	15 - 472	AC004047.
HNEMJ91	8700	789443	1 - 572	15 - 586	R38756, AA169642, AA807905, AW021148, AA746636, W76332, AA041299, W72247, Z40683, AW054820, Z41322, AB09582, AI138777, AW151097, AA041351, AA705107, and Z95152.
HNEMJ69	8701	755006	1 - 445	15 - 459	AW197056, AA650218, A1359687, AA658543, AI421102, AI080745, AA226084, AA653852, AI080243, AF196779, AI096701, AI121603, AI031291, AC005520, AC005562, AC005081, AI080243, AC003077, AC005102, AC006441, AI049776, AC002369, AC005844, AP000354, AC005057, U80017, Z93017, AI132712, AC006312, AC005071, AC004883, AC005015, AC006057, AC006211, AC016027, AC004859, AC006251, AC006285, Z38340, Z97630, AI049569, AF165926, AC002544, AC004662, AI024507, AC006285, Z38340, AI031683, AC007537, AF053356, AC005011, AF001550, AC007193, AI022316, AC020663, AC004966, AC005484, AF001552, AC007225, AC012384, AI049839, AC007688, AC002395, AC004878, AC006946, AC000052, AI008382, AC004815, AI021453, L44140, AI021391, AC007637, AP000248, AI109952, AC005829, AC005786, AC002301, AF0047825, Z83844, AC004814, AC008372, AC004953, AC003101, AP000355, AI022326, AC007686, AC005225, AI109984, AC005722, AC006014, AP000065, AF134726, AI023575, AC004887, AC004084, Z98941, AI031584, AI022315, AC000026, AC002350, AC015853, AC005622, AC006059, AI022476, AC000025, AC002073, AC005529, AI033527, AC004382, AI050318, AF111168, AC005527, AI022336, AC004832, AP000692, AC005031, AC005488, AC003010, AC002059, Z84487, AC008040, AC002119, AI031255, AC002394, AI133382, AI031591, and AC006121.
HNEMJ56	8702	469030	1 - 445	15 - 459	AI133448, AI339436, AA401945, AI044340, AI037425, AI014656, AA577824, AI216990, AI569363, AA179163, AI249880, T74524, AW079809, AA524229, AC004491, AI050306, AC005921, AC008033, AC007686, AI031255, AC002094, AC002470, AC005088, AC005796, AC005859, AC005037, AC006241, AI080243, AI049776, AC005844, AC016026, AC005231, AC004859, Z84466, AC002352, AI049540, AC005527, U91323, AC002288, AC007371, AC004707, Z93241, AC007731, AF038458, AC005899, Z82206, AC007057, AC005005, AC004985, AC004019, Z93023, AF030453, AC002300, AC005358, AC002425, AP000557, AC005881, AP000553, AC005519, AC005529, AC004983, AC007263, AC005332, AI031276, AC005940, AC006001, AI096773, AC004821, AC006509, AF207550, AC003071, AC005911, AC005484, AC007308, U7924, AC005520, AP000111, AC005488, AC005841, AI049758, AP000133, AC008372, AC002350, Z98752, AC009516, AI024507, AC006430, AI021707, AI049779, AC005412, AC002549, AC004922, AC002044, AC007226, AC006358, AC005514, AI022338, AC005011, AC000025, AC002400, AC005377, U91326, AC005015, AI031058, AI022336, AP000211, AC005180, AI031283, AC002565, AC005666, AC007685, U91322, AC005602, AI024498, AC012384, AC006251, Z98941, AF165926, AI031228, AC005089, AP030876, AP000555, AI133163, AI035529, AP000512, AC005409, AI022320, AI035086,

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HHHMI09	8703	625459	1 - 448	15 - 462	AL280176, AF172294, AL402500, and AL471831.
HHHEMG02	8704	917366	1 - 705	15 - 719	AL361650, AB939413, R13983, AL791644, AL1792322, AL312035, AL424010, AW082869, AA9111739, N56305, and AL422406.
HHHEMG01	8705	916297	1 - 284	15 - 298	R94247, and AA251248.
HHHEMD56	8706	733353	1 - 400	15 - 414	AL146808, AA722187, AB90261, AB088778, AW451154, AB983943, AW449490, AL088875, AL492618, AA526969, R76719, AW162759, AA719439, AL1880009, HA161614, D80207, H97676, AL040223, AA115533, H13188, AA552629, AT996667, AL13189, W23735, W35334, AL03992, AW304934, AL150509, AB32722, AW157796, AA115532, and AJ916646.
HHHEMC41	8707	927255	1 - 457	15 - 471	AW166113, AL119483, AL340151, AA491767, C75574, T47138, AA714110, C75406, AA444166, AL038304, H29914, AL49688, AW151247, H53546, Z99968, AA525753, AA829723, AL251429, HA7835, AL366180, C75602, AL031759, AA535216, AL572680, AL597580, AL545779, AT744766, AA494313, C75649, H60639, AA630854, AL620376, AL244356, AW103030, AA666295, AA602906, AT754567, AL610933, AL628859, AL150731, H47461, AW302017, AL570943, AL588837, AL477983, W05446, N49298, H88666, AL613465, AA458534, H05066, AL047349, AW275432, AL627917, AL313293, AT755214, AD251576, AL571161, AW070532, AL288350, AA303054, AA662573, ZD84105, AL06232, AA622801, T50694, AL049999, AL569100, AL077941, AA262752, AW302753, AL590404, AA714011, AA837686, AL144081, AW302711, AW303054, AL583466, N26201, AA452887, AG640710, AL580707, AW274191, AW192599, AW020612, AA218684, AA084320, AA128511, AA904137, AL610360, AL041894, ALB29331, AA720582, R97658, AA581247, AA525331, AA828833, AL884383, AF071071, AF170303, AF170304, AF077658, AF071070, I34294, AC010170, AL049694, Z68285, AC009247, AL109952, AL049697, Z99128, AL023807, AP000553, U17576, S77605, AL035086, AC006509, AP000116, M87923, AC006449, AC005207, AC002369, AL109758, AF196776, AC006111, AP000239, AC004797, D06591, AC002369, AL109758, AF196776, AL080243, AC004033, AL080317, U82828, AC004771, AC002096, AC005377, AL031594, Z83826, S42659, AC000353, AC005747, AC016026, AC002115, AC005520, AC004584, AP000310, AC005065, AL050307, AC006505, AC007050, AF053356, AC005793, AL009183, AC004983, AL031230, AC000003, AL031284, AL096701, AL035071, AC007276, AC005067, AC000025, AF196969, AL022322, Z82245, Z98742, AC005332, AC004242, AC004534.
HHHEMC10	8708	969380	1 - 1813	15 - 1827	

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HHEMA35	8709	467295	1 - 725	T69503, H96710, A1720229, A1180833, and AF115509.
HHEMA07	8710	953200	1 - 446	AA028899, AF167784, AL093656, H24053, and R17668.
HHELA35	8711	878217	1 - 449	AL042540, AL042026, AL040542, AL042640, AL041808, AL046135, AL044533, AL041936, AL046244, AL043604, AL043201, AL043218, AL046383, AL039689, AL042346, AL044015, AL043425, AL043424, AL045991, AL079876, AL042700, AL044377, AL043468, AL043795, AL043128, AL042245, AL044029, AL044771, AL042712, AL043867, AL049007, AR017908, A78783, A78787, 103356, 102541, A60975, A61052, A60955, A21624, A23583, A02712, A02710, E12615, AR035193, A84772, A98767, A13388, A21625, A68112, A68104, E14304, A77368, A07700, A02228, A02230, A13392, A13393, I62368, AR031488, I13521, I19516, I19517, A98467, A84776, A18756, A71435, A00781, A84773, A84775, I52048, A93964, A93964, A27396, A95052, I63120, A68114, A38214, AR043602, AR067733, A76773, AR062871, AR017907, AR043603, A84774, AR043601, A22413, A95117, A95051, A18053, AR027100, AR029418, I44531, I28266, AR067734, AR067731, AR028669, AR028668, AR028667, AR028670, A00784, A00783, A18050, AR037157, AR054109, A71440, A44171, A23334, A75888, I70384, I95540, AR018924, A60212, A84746, A60209, A60210, A32110, A63067, A64973, AR067732, A51047, A63064, AR029417, AR018923, A60111, A48774, A23633, I21869, A29109, A60109,

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HHEBQ59 HHEB004 HHEBM89	8730	739216	1 - 453	15 - 467	Z82182, Z85987, and AL031674.
	8731	615127	1 - 452	15 - 466	
	8732	786088	1 - 453	15 - 467	
HHEBM53	8733	728087	1 - 459	15 - 473	AW365588, AW365645, AW178374, AW365586, AW365672, AW178440, AW365663, AW375350, AW365798, AW351683, AW365799, AW365784, AW365743, AW365772, AW351664, AW365664, AW365631, AW373807, AW372625, AW172127, AW178298, AW179229, AW365840, AW365686, AW365631, AW373807, AW375355, AW375355, AW365803, AW365680, AW365604, AA583144, AW200839, AW158097, AW179232, AW365593, AA36854, AW365585, AA280016, Z21375, AW280087, AW178307, AW365676, AW365850, AW365317, and AW365316. AL037436, AL041199, AL037443, AL043677, AL043467, AL040576, AL038532, AL041635, AL043537, AL044074, AL045743, AL038838, AL041133, AL045920, AL041602, AL043492, AL044165, AL043775, AL038822, AL041752, AL040839, AL045857, AL046442, AL040745, AL045684, AL040617, AL040332, AL040285, AL040342, AL040091, AL040128, AL040168, AL040253, AL0404037, AL044186, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL040444, AL046327, AL041131, AL045725, AL049069, AL045990, AL041227, AL040458, AL040553, AL041159, AL044187, AL046150, AL043612, AL041168, AL041955, AL037435, AL040090, AL040263, AL037343, AL040294, AL041197, AL040329, AL039744, AL044274, AL040082, AL044272, AL040148, AL041730, AL041523, AL043627, AL041186, AL046392, AL041374, AL040052, AL043845, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL049018, AL040472, AL043848, AL040370, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL046147, AL040768, AL037727, AL039360, AL046994, AL042712, AL042096, AL040414, AL040571, AL040529, AL046097, AL046914, AL045671, AL142134, AL037335, AL046360, AL040031, AL040238, AL045994, AL039338, AL037323, AL037341, AL041346, AL079878, AL041140, AL041278, AL040155, AL039432, AL047131, AL037295, AL041096, AL041358, AL047012, AL040463, AL045989, AL044227, AL045784, AL040464, AL037279, AL041098, AL041163, AL041277, AL037371, AL043538, AL041324, AL043440, AL039087, AL040621, AL037259, AL043128, AL040075, AL046168, AL048647, AL037352, AL037352, AL046099, AL041210, AL040149, AL041086, AL041296, AL044162, AL043496, AL041233, AL036230, AL079953, AL079852, AL040193, AL037361, AL036500, AL038761, AL049007, AL041246, AL042700, T23957, T23888, AL525556, AL540967, AL525431, AL541365, AL045340, AL044224, AL541374, AL541514, AL541017, AL546891, AL043950, Z30131, AL044015, AL043444, AL546853, T23985, T24112, T02921, T24119, AL039156, AL547039, AL044530, AL036630, AL039504, AW541416, AW013814, AL039555, AL039509, AL039564, AL039538, AL038043, AL039108, AL039678, AL039566, AL039074, AL038837, AL039521, AL039625, AL039648, AL039659, AL039629, AL045794, AL039476, AL043586, AL037726, AL038531, AL040592, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL042909, AL045341, AL045337, AL044412, AL037051,

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HHEBB80	8735	775424	1 - 365	15 - 379	AT141540, A485147, AB280117, AR038365, A4744754, A4748786, and U66589.
HHEBB22	8736	858418	1 - 311	15 - 325	A5805560, A982808, A6683548, AL047192, H41986, A4372736, A1584301, X88803, W23553, A9W057504, AA730782, AD49701, A676621, A190494, A5164301, X88803, AL137946, A4487475, A4297011, A4326452, A1053784, A4296604, A1762302, A1904692, A804297, A416492, AB002762, A132367, AC006111, AC007421, AP060357, AL1996701, AC005529, AC002477, AC004033, AC03982, Z83844, AC06261, AC002117, AC005736, AC004813, AL022476, AC005051, AC005932, AC005531, AC007283, AC005971, AP000689, AF003626, AP00512, AC006088, AC005280, AC005288, AC002425, AF11168, AC007637, AC005231, AC007216, AL109827, AL031602, Z99716, AL022327, AC007055, AL022315, AC004491, AC006312, AC005015, AC006130, Z82215, AB23051, AP001053.

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HHEAL37	8738	491205	1-452	15-466	

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HHEA106	8740	935355	1 - 873	15 - 887	AA223048, AA486071, AA225002, AA259264, and AA259263.
HHEAD08	8741	959305	1 - 913	15 - 927	AF653055, AW137083, AL020628, AL0206167, AL825389, AL635444, AW020480, AW080157, AL572778, AL689157, AA830536, AL872787, AL561356, T49776, AL273189, AL613028, AL627360, AL951062, AJ010953, I89947, and Z82022.
HHEAC20	8742	668948	1 - 445	15 - 459	AB023164.
HHEAA02	8743	932265	1 - 618	15 - 632	AA206987, AA174038, AW408551, TS8017, AW407690, AW383801, AW372047, and D38553.
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HFSBB12	8745	971571	1 - 411	15 - 425	AL247356, and AA342973.
HFSBB06	8746	960835	1 - 312	15 - 326	AA687273, AA342970, AA490838, and AA651799.
HFSAZ1	8747	725973	1 - 703	15 - 717	W85737, AA203160, W86374, H73352, H73608, AA342722, and AF085998.
HFSAX30	8748	693419	1 - 370	15 - 384	AA342872, and N50158.
HFSAW27	8749	684668	1 - 359	15 - 373	AA342834, AL968315, AL677905, AA868484, AL867702, AL914523, and T69593.
HFSAU89	8750	785904	1 - 479	15 - 493	AL048376, AA302964, N52560, AA630004, AA526343, AA721530, R86160, AA713765, AL431513, AL078184, AA714073, F05830, AA363003, AL915081, AL884861, H99700, AL803741, F08866, AL741301, AW019964, F35684, AL520967, AL223968, AA663373, AA484892, AA079076, AL300818, AL109992, AA721523, AA678616, AA527954, AL859736, AL859906, AA078137, AL185394, R67701, AA579281, AA742949, N72607, AA664248, AA632556, AA657910, AA636102, AL276360, AA946848, AW084445, AL049701, AL678476, H84412,

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AA187595	AW269861	AI684495	AW269881	AW087253	AA342077	AI468367	and
AA972820							
AW088326	AI566702	T62825	AA483086	AA814532	and AA180167		
AA283977							
AW373840	RI15032	and T97932					
T91881	AB011135	AC0005670	and AC005829				
R98434	R98433	H59682	N542098	H59632	H62487	AW067991	and AB032993
W37916	AW369323	AL138197	AA292636	AA789205	AA278688	AI077497	AI670821
AW117287	AA608906	AA382777	AA724269	AA278680	AA827227	AI160796	AA600253

HEONN02	8769	840210	1 - 364	15 - 378	ALB900171, AA625768, W37874, AA421286, AA292637, AA844108, AA917528, AW316905, AA768446, and AF117210.
HEONL19	8770	575884	1 - 476	15 - 490	H81666, R20624, H02596, and AL109758.
HEONL09	8771	961147	1 - 142	15 - 156	AL042382, AW162194, AL079794, AL119399, AL698401, AL251221, AL079963, AL961589, AL382670, AW29990, AW438793, AL624293, AL811785, AL826225, AW080279, AL036980, AW075645, AL345347, AL824576, AL610667, AL037582, AL037602, AL783821, AA527153, AW022584, AL468872, AL919593, AL890507, AL690748, AL933992, AL446515, AL342774, AL538850, AL923989, AL963224, AL814087, AL710725, AL491852, AL559752, AL634222, AL280747, AL580214, AL868204, AW089233, AW128983, AL445115, AW075484, AL758309, AL046466, AA693314, AW130804, AL922007, AW050850, AL043168, AW081606, AL570872, AL648136, AL121496, AL34134, AL568138, AL628296, AL439745, AL917963, AL921254, AW148423, AL590118, AL564765, AL570966, AL119457, AL866457, AL349645, AW081902, AL623941, AW051088, AL470648, AW409775, AL541048, AL758437, AL802372, AL585991, AL926333, AL037639, AL890907, AL352326, AL307494, AW105601, AA983883, AL580674, AL036673, AW169604, AL670009, AW075482, AW022102, AL554821, AL340511, AL696570, AL916419, AA464646, AL038445, AL564259, AW088882, AL564234, AL540759, AW161156, AW020397, AL866465, AL698391, AL453487, AL446046, AL612885, AW102794, AW071689, AL590043, AL568060, AL620639, AA814990, AL538342, AW161735, AW079336, AL637833, AL802240, AW020710, AW150762, AW163554, AL043152, AL866770, AL277008, AL563957, AL609236, AL289310, AL263331, AL225023, F34800, AW081666, AL813868, AL345688, AL048644, AL445069, AL690389, AL566670, AL423105, AL251485, AL621341, AL473536, AL624056, AL539863, AL683099, AL811353, AL744256, AL540674, AL269242, AL354283, AW022682, AW102902, AL830259, AL884318, AW104056, AL874166, AL042544, AL872423, AL744485, AL625209, AL819106, AL648508, AW081449, AW079572, AL812015, AL587156, AW189716, AL873704, AL046618, AL828412, R36271, AL700159, AW007555, AL468959, AL285448, AL352184, AA502794, AW029197, AL624548, AW080079, AL540754, AL890628, AW004886, AL539847, AL911648, AL582932, AL638798, AW051059, AL047172, AL624120, AL499621, AL687166, AL589267, AL218280, AL829327, AW054931, AL918449, AL423326, AL240602, AL620075, AW023338, AW167083, AL355849, AL683590, AL634305, AL687287, AW024564, AL254042, AL046595, AL569579, AL589428, AW085786, AL040694, AL525669, H89138, AL573167, AW149878, AL933926, AL969655, AW020693, AW188554, AL348897, AL104040, AL678950, AA641818, AL273094, AL521594, AL037463, AL284034, AW081143, AL540458, AL023856, AL343091, AL340627, AL784252, AL866090, AL312210, AL345416, AW167918, AL500061, AL491710, AL345612, AW243886, AL335426, AL305745, AL832457, AL241923, AL11851, AB016226, AL48978, AL137529, Y11587, H89947, AL137648, AF205861, U49434, AR038854, S75997, AL049283, AF111849, AL049464, AL117394, AL137480.

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				H01559, and Z7733.
				AF159943, and AL109755.
				T49908.
				AA812058, AA659324, AF582769, AA441788, AL041014, AA708352, AA572960, AL040800, AA810370, N32030, AA553439, A649642, AF538540, A1445815, A1252506, AL1339895, AW082744, F17700, AW265073, A1049831, AW028908, AA678436, AA904253, A1623899, AL1270476, AF1582890, AA601222, A1888405, AW272641, AA847741, AA810318, N64587, AW276984, AL119691, AA503600, A1623563, AA448838, A1028540, A1090334, AA599063,
HEONL06	8772	935516	1 - 402	15 - 416
HEONK37	8773	707505	1 - 467	15 - 481
HEONK10	8774	964757	1 - 328	15 - 342
HEONU18	8775	575888	1 - 325	15 - 339
HEON192	8776	792772	1 - 589	15 - 603
HEOMX03	8777	922962	1 - 592	15 - 606

				AA655005, R92640, AA128592, AT754291, AL889923, AL870204, AA850969, AL357551, AZ84640, AA553465, AL364809, AD91317, AT754955, AA338486, AA121777, AW273218, AW090144, AL301700, T08638, AA934680, AW192330, AW419081, AW2380160, NZ25307, AS25450, AL299050, AT749235, AC006285, AC006312, AC000557, AC006480, AL031447, AC005488, AL121653, AC016025, AC005399, AC006057, AC005519, AC002059, AC004148, AC006449, AC005971, AC007216, AC005531, AL031662, AC004106, Z99128, AC008372, AC004227, AC005695, AF196969, AC007725, AL135744, AC004242, AC003029, AC002316, AC005015, AC005180, AF053356, U91321, AC002350, AD000092, Z97054, AL096701, AC005231, U95742, AP000553, AL079342, AC004841, Z99716, U91327, AC004983, AC004382, AC005632, U95090, AC005225, AC004796, AC011311, AL080243, AC000481, Z93017, AL021453, AC005089, AC004024, AL035659, AC007055, Z94044, AP000555, AC000516, AC005057, AC009516, Z99943, AL121603, AC003026, L41440, AC006001, AL031230, AC005372, AC004882, AL135879, AL121790, AF109907, AL022319, AP000193, AF001549, AL139034, AL031005, AL050308, AC005412, AC005209, AC007676, AL023879, AL031427, AL121655, Z95115, AC005899, Z49237, AC007308, AL031120, AC005182, AP000117, AL022336, AC004098, U95739, AL021391, AC006263, AB020863, AC004895, AC002996, AF107885, AC004686, AC004820, AF047825, AC006111, AF196970, AC005005, AP000688, AC005837, AL132712, AL109628, AL024498, AC007684, AL133246, AC005023, AC005274, AC007263, AC002404, AL022326, AC006211, AP000689, AC002477, AC004491, AC004678, Z97056, AC004253, AL031584, AF064861, AC005037, AC005288, AC003983, AC005102, AC005944, AC005785, AC004816, Y14768, AC004662, AP000967, AC012627, AC004234, AC004859, AF111168, AL109798, AC005379, AC005666, AC004099, AL031294, AC002301, AC002365, AF134726, AC006004, AL132777, AL022320, AC003043, AL049748, AP000558, AL031594, AC007731, AC006141, AL031846, AF002223, AC005796, AL050348, AC006026, AF111169, AC004799, AL033392, AF200465, AJ229042, AC005251, AL133163, AL121652, AC004996, AC004765, AC005200, AL022476, AL031432, AB003151, AC004815, AC004605, AC005736, AC007363, AL035530, AC004084, AL049779, AC004707, AC004212, AL022165, AP000346, D00591, AC003950, AC002128, AC002429, AC004858, AC002310, AP000503, Z84480, AL035683, Z99570, U63721, AC002039, AC005669, AC006132, AC005197, AL049869, AC006270, AC006071, Z98048, U62317, AC007543, Z98051, Z98036, U91326, AR036572, U91328, AF196779, AC004125, AL021978, AF037338, AC006241, AC005500, Z93241, AC005620, AC005696, AP000115, AC004263, AP000313, AL031985, AL023807, AC006121, AC006487, AL031276, AC004694, AC005081, AC002470, AP000692, AF217403, AL049871, AL022329, AC003104, AC005082, AC005529, AL133244, and AL031680.
HEOMX01	8778	913683	1 - 545	15 - 559
HEOMV61	8779	506231	1 - 513	15 - 527

					AA662227, AW238542, AI343143, AA828696, AA587995, AW439480, D29019, AI925579, AI732690, AI929746, AI590442, AI133861, AI251576, AI292738, AA342945, AA579366, AI872503, AI307201, AW021886, AI278972, AW238583, AI566555, AI466821, AI734070, AI821467, H58672, AC008372, AC006064, AC002115, AI021937, AC004000, AC005153, AI132987, AI117258, AP000359, AF064861, AC009248, AI049829, AI031280, U91326, AC004678, AC005280, Z82194, AI035587, AC004699, AC004821, AP005112, AI008582, AC005726, AF109907, AI035249, AI049759, AP005555, AC007371, AC004765, AC008115, AC007182, AC008134, AI022326, AC005764, AI023353, L78810, AI239318, AC005620, AI132771, L44140, AC006480, AC004638, AI031650, AI035410, AF196971, AC002476, AI031257, AC005803, AI033525, AC005695, AC007536, AC008984, U73634, AC004777, AI109628, AC006358, AI035450, AI020993, AC002544, AC003112, AC006312, AF165926, AC002073, U62293, AI031577, AC002558, AC003101, Z85986, AC005291, AI023574, AP002048, AC002563, AP000355, AC005531, Z83822, U95742, AI031728, AC004983, AC007312, AC007308, AC006285, AC006530, AC006077, AI239322, AF001549, AC004859, AC004984, AF195658, AC005041, Z84572, AC005288, AC004835, AC004694, Z83844, AI022722, AC005562, AC006270, AC004148, AC004125, AC005197, AC006965, AI109627, AI035072, AE000658, AF001552, AC005353, AC005667, AP000466, U85195, AC002119, AC004810, AC007036, U95740, AI050318, AI096701, AC007560, AI096678, AC007738, AC005740, AI096791, AC005048, AI009031, AC009247, AI034549, AF117829, AC0012384, AC007285, AC002375, AC005088, AC005839, AC007227, AC005725, AP000495, AC005911, AC004024, AC004751, AC006539, AC004878, AI031255, AC003108, AC004841, AC005182, AC008154, AC002563, AI031985, AI035681, AI022324, AB023049, AI049830, AI049776, AC004819, AI022313, AB016897, AC005599, Z98044, AC004596, AI133249, AC005261, AC005074, AI022320, AC005057, AP001040, AC004887, AP000494, AC005536, AI003147, AC003119, AP000038, AP000106, AC007216, AC005004, AI133163, AC002331, AF053556, AI121923, AP000018, AC004477, AF038458, AI133245, AC006649, Z68756, X55448, AC007541, AI022160, Z83840, AC005529, AI121825, AI022318, AC005225, AI117337, AC004797, AF205588, Z97053, D87675, AI022721, AC005480, AC005944, AF196969, AB020863, AC002300, AP000557, AP000514, AC005332, AC004056, AI080243, AC003013, AI023879, AI049780, AI049757, AC004106, AC005971, AP000476, AF003626, AI050312, AP000556, AC005100, Z83838, AP000210, AP000132, AC005206, AC005940, AI049635, AC004687, AC005670, AC007324, AC005324, AC005696, AI132712, AF067844, AC005082, AC004895, AD000092, Z95331, AI021453, AC003086, AI021368, AI031281, AI049872, AI229041, AI031670, AC007879, and Z82185.
HEOMQ68	8780	753075	1 - 270	15 - 284	T94453, and T94541.
HEOMQ04	8781	931032	1 - 848	15 - 862	N98652, AI718741, AI744439, D59305, AI192651, AI799507, AI185182, AA150851, AI67734, AI689723, N92449, AI070453, N62281, AA045938, AW129608, AA478329, AW250169.

HEOML91	8782	667931	1 - 300	15 - 314	W31286, AA045823, AA780299, AA49362, AW237037, AW008432, AA49623, AA886147, A924764, N66129, N77569, AA737269, AI796181, AA328292, AA523165, AI934498, AA083786, AI291525, AI475558, AA384850, AA919079, AI928049, AA532529, AI933049, AW021922, AA548761, AW383474, AW383521, AI536641, AI568378, AI280669, AI181555, H43514, AI604909, AA669083, AI912666, AI864383, and I76237.
HEOML91	8782	667931	1 - 300	15 - 314	Z99716, AC004491, AC003029, AC003037, AC006071, AL049874, AF064866, AC006501, AF11167, and Z96074.
HEOML76	8783	575927	1 - 211	15 - 225	AA931871, and AC006211.
HEOMH63	8784	745146	1 - 416	15 - 430	AA018945.
HEICC56	8785	733383	1 - 154	15 - 168	H72530, N72717, W52505, R84302, AC005328, AC007136, AC004587, AP000694, AC005086, AC005562, AC005231, AC004104, AL024498, and AC004841.
HEIBB84	8786	781994	1 - 394	15 - 408	AA772720, AW207152, AA018758, AA019256, and AA620301.
HEIBB31	8787	697987	1 - 337	15 - 351	AA424812, and AW085011.
HEIBA15	8788	888667	1 - 414	15 - 428	
HEIAX24	8789	677177	1 - 338	15 - 372	AI365988, AW406755, AA587256, F29989, AI358229, AW193265, AI613280, F36273, AA482711, AW029038, AI284640, AW276827, AI350211, TS1818, AI570261, AI431303, AI345634, AI281881, AW303196, AW274349, AI434695, AW438643, AW301330, AI334443, AI619997, AI270117, AA826303, AA649642, AI963720, AI918421, AI610159, AW265385, AW088202, AI299050, AI904894, AI254615, AA491762, AW327868, AI585771, AA530315, AA682912, AA653618, AA469451, AI039790, AA843450, AI564185, AA573020, AI358501, AA613227, AA559290, AI567076, AA610491, AI055766, AW270270, AI038785, AA525190, AA387604, AW103758, AA507547, AW276435, AW270702, AI249997, AI047427, AA586458, AI368745, AI801600, AI919265, AA503154, AA581903, AI044940, AI801482, H84783, AA259245, AI307608, AA503258, AW021583, AI732120, AI792518, AW080134, AI457397, AI434706, AI583612, AA810318, AW021207, AA846935, AW406447, AA657918, AW008952, AW071196, AI251436, AI055790, AI267818, TS3607, AI809023, AW459558, AA483771, AW088846, AI049722, AW166815, TI5977, AI929531, AA148489, AW419262, AA609025, AI837084, AA623002, AI567674, AI281903, N94233, AW304584, AI471481, AI355206, AI754658, AA491284, AI792505, AI688846, AW193432, AI339850, AI251002, AI037683, AI866856, AW238278, AA713815, AI138455, AI133636, AW162049, AW399687, AA515051, AI92050, AI937850, AA847499, AW023389, AI119691, H71429, AA062722, AI754253, AI839946, AW083402, AI886629, AA513141, AW062724, AI133164, AI464644, AI061334, AI635272, AA525824, AA482681, AI631507, AI358343, F28204, AA652037, AA488746, AI499503, AW440836, AI653886, AI048925, AA229785, AA501872, AA350859, AI568256, T29180, AA501614, AA348929, AA502963, AA503473, AI334435, AI250552, AA664407, AI654247, AW304805, AA669251, AI312309, AW020992, AA834667, AA113186, AW167799, AA099892, AW020141, AI251034, AI254770, AI589230, AA659083, AI192631, AW261871,

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HEIAJ11	8790	967272	1 - 412	15 - 426	AI951431, and AW166781.
HEIAU39	8791	861503	1 - 354	15 - 368	AW291698, AW49355, AA077663, and AI624833.
HEIAR07	8792	953626	1 - 396	15 - 410	AA160979.
HEIAJ39	8793	705643	1 - 388	15 - 402	AA262593, AW055245, AA765419, AI268356, and AI919028.

HEIA86	8794	785680	1 - 200	15 - 214	TS2922, TS2923, and AC005368.
HEIAD76	8795	574163	1 - 267	15 - 281	AL355103, P23338, AA503307, AA503142, AD26696, F34506, AA484892, AA507814, AL791659, AA523695, AA365586, AW304592, AA504951, AA779783, F09355, A1251429, A1580707, A1053673, AA744001, AW304592, AA504951, AA779783, F09355, A1251429, A1580707, A1818362, F17700, AA311357, AA810158, U73647, AC007227, AF196969, AP000501, AC002347, AL031905, AP000300, AP000045, AP000113, AC005632, AC006050, AC007016, AC007536, AC005829, Z95152, AL049548, AC004815, Z69837, AC006965, AL121595, AP000248, AC001228, AL050307, AL049569, AC005914, AC002551, AL133163, AP000555, AC006088, AC004985, AC005516, AL008718, AL109984, AC007435, AC005701, AC002369, AC006505, AC006312, AL023575, AC005375, AP000260, AC006011, AL020293, AL0022316, AC005104, AC006077, AF111168, AP000099, AP000116, AC002126, AC008028, AF002223, AP000036, Z99496, AC002316, AC005520, AL021154, AC006241, Z93024, AL049760, AC008115, AC007899, AL031597, AC006455, AP000500, Z84466, AC002425, AP000141, AC005102, AL022326, Z97036, AF207550, AC005587, AC005015, AC007055, AP000088, AC002364, AB023049, AF049895, AC006511, AC006344, Z95114, AL121923, AC005180, Z84480, AL034417, AC004129, D87675, AL022721, AC005089, AC004752, AC004893, Z98200, AC002554, AC005531, AC005231, AL031295, AL117258, AC004674, Z83826, U29953, AC006516, AC016026, AC005544, AC009336, AC004933, AC007292, AC003003, Z95113, Z81364, AC004522, AC005332, Z93017, AC003042, AL049643, Z84469, AC006121, AL133246, AL035588, AC006930, AC004526, AC006409, AL022165, AC004851, AC004876, AC005837, AL034371, AC004811, Z97630, AC007993, and AC004844.
HEIAC62	8796	745672	1 - 245	15 - 259	AP000011, and AP000153.
HDIM27	8797	851806	1 - 498	15 - 512	AA434364, AA631736, AL051874, AA460723, AA502498, AA471086, AL025722, AL132985, AC004447, AC005261, AL031432, AC004560, AL079305, Z83838, AC004030, AC005776, AC005387, Z70050, Z73986, AC007240, AC011604, AL031782, AC004821, AC006222, and AP000164.
HDITL05	8798	928253	1 - 488	15 - 502	AA769122, AL044520, AL042431, AA648784, AL208877, AL024841, AA804545, AW340113, H82877, R64372, R64371, and AL137391.
HDITL28	8799	851830	1 - 454	15 - 468	AA916035, AL246061, AL054090, AL249853, AL284543, AL254770, AL251944, AL251034, AL251203, AL251284, AL250552, N74027, N71579, T60940, AA687542, AL251241, AL226266, W63553, AW303098, AA434346, AA636102, AA827383, N22153, AW073498, AL929410, AL753672, AL750950, AW167909, AW407585, AW019964, AW410286, AL018726, AL1860535, AA365893, AL039309, AA468289, AL732682, AL720943, AA653823, T08386, AA133472, AA714073, AL927261, H86579, AA448050, AW089950, AA211734, H43183, AA665304, AL354369, AA018923, AL012829, AL039930, AA559166, AL902426, AA741301, AA0504597, AL570805, H63220, AA169234, AL750557, R68503, R99581, AL138065, AW082076, AA527109, T74259, AL174703, AW057873, AA657910, AA179981, AA837796, AL357020, AA084950.

R48980, AA564753, AA411590, AA688266, AA256107, AA599749, AA856866, AA743968, AA837739, AA513884, AA610374, AL133580, AA386055, AA527954, AA429481, AA214457, AA605020, T03928, AL355559, AW238495, AL037006, AW274525, AA748102, AA393036, AL298079, AA515551, AA704037, AL087843, AA424249, AL348467, AA736713, W60035, AL135988, C14599, AL908424, AL871691, AL284105, H30395, AL471455, AW392887, T06518, AL671077, C14576, T03401, AL037777, AA502230, AW082742, AL989742, AL687343, AL459866, AL744095, AL124779, C14880, AA678950, AL761566, AA282231, AL799421, AL434365, H24957, H45806, AL201668, AA501371, AW407632, AL839652, AA321523, AA227858, AL399872, AW151761, AA077796, AA572743, AL031685, AL096712, AP000501, AC000592, AC004383, AC020663, AC008085, AL031728, AL021808, AC005920, AC004922, AC002565, AC005815, L44140, AC005926, AB020874, AC005004, Z95115, AC004849, AC006116, AL031659, Z83851, AF064859, AC004000, L78810, AC005088, AC005971, AC002477, AC005666, AC007308, AC002470, AL031255, AC004874, AC004913, AF196969, AL031132, AL033659, AC0010197, AC002070, AC005821, AC005015, AF165142, AC006021, AC004132, AC007685, M15366, AC005328, AF196970, AL049694, AL035086, AC006057, U58047, AC003689, AL035249, AC007533, AC006263, AF181896, U72788, AF030453, AC003029, AC007051, AC005181, AC007225, AP000503, AP000067, AL034427, AC005903, U95741, AL008582, AC002483, AL031666, AL008730, AC004941, AC005375, AL035070, U95743, AL139054, AC004682, AC004051, AL031602, AL022320, AL021879, AP000065, AL021393, AC008044, AF165926, Z97054, Z94277, AB014460, AC003030, AC005600, AP000201, AC004934, AP000097, AC004056, U91323, AC004801, AC005386, AL109628, AC007100, AC006070, AF116548, AF029062, AB000876, AC004181, AC004560, M89651, AC005210, AP000230, AP000506, AP000144, AC002394, Z85987, AL035587, AC003007, AL109967, AL132712, AC004999, AL031670, AC006001, AL021578, AB000882, AC002543, AC005184, AL049712, AC005531, AC006083, Z98884, AC005225, AL022721, Z98949, AC004963, AC004491, AL080243, AC006538, AC003685, AL022476, U85195, AF111168, AC000658, AF015262, AL229043, AP000362, Z98751, AB016625, AC004628, AC008975, AL031575, AL008725, AL023575, AL031230, Z97989, AC005585, AC004832, AC005224, AC007736, AC007066, AC004125, Y10196, AF023674, X54486, AL049849, AL031447, AC005630, AC012085, AP000240, AL133445, AL133275, M33132, AP000319, AP001064, AC000075, AC003072, AC000084, AD000091, AC002491, AC006277, AC006942, AB015555, AC005778, AC005619, AL121923, AC004656, AP000228, AC003678, Y07848, AC005067, Z73358, AC004975, AL031594, AP000167, AP000052, AP000120, AC002375, AC005663, AF155238, AD000092, AL008583, AP001065, AC004815, AL031657, AC004638, AC006251, AC000026, AC004876, AC007114, AC005664, AC004477, AL022398, Z97205, AC007388, AC002059, AF196779, AC005722, AF002223, Z99943, AL136295, AC005209, AC005387, AC004685, AC006543, Z98044, AC005670, AF027390, AF217403, X77825, AL049713, AF134726,				
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HDTLBP90	8800	960209	1 - 721	15 - 735	AB029343, AC003036, AL031718, U29895, AB023059, AC004195, AC005546, AC005391, AC004834, AP000509, Z29570, and AL009181.
					AI541704, AI142398, AA813273, AA743887, AI936676, AI075531, AA910854, AI022782, AI147388, AA707809, AI91594, AW149648, AI59585, AA310281, AI189686, N66573, H08536, AI262892, N95604, AA741331, AI248487, AA868324, W02990, N22795, AA262629, AA609701, AI093401, AA659738, H87698, AI027373, AI027121, AA978057, AA983525, N48015, AA720012, AA447262, AI356159, R59460, AI678874, AI952101, T34018, AI142529, AI690064, AA441994, AA921142, N35367, AI187027, AI421750, AA4768375, AI079205, AA447137, AI560001, AI860552, AI826993, AI306687, AW080519, AI381210, AI582792, AI040724, AA243615, AI004382, AA5386674, AI363696, AI241252, AI591409, AI499068, AW026852, H08537, W0008824, AI123841, AA627439, N72902, AI369126, AI611839, W73025, AI336409, AA441993, AA837530, AA806979, AI886595, AA301661, R59400, T35913, N98833, T25882, W25044, T31881, T81454, H87190, R27910, AI560041, AI560047, T25881, AI4723754, AA436622, R27815, AA748322, T81453, AA680083, AI348535, AA861174, AA687982, AA336442, H86836, AF161514, and Z57379.
HDTKX61	8801	806340	1 - 657	15 - 671	AL040934, AI354583, AI811104, AA102590, AI955210, AW005356, AI923908, W72822, AI869691, AA776240, AI097401, AI241672, AA610244, AA136144, AA432194, AW029577, N57854, AW026450, AI913174, AI493590, AA607643, AW173719, AI912330, AI261889, AI246619, W15338, AI573143, N62095, AA632265, AW262961, AW338014, AA599002, AW080405, W342043, AW170642, AA977345, N57753, AA809373, H243494, AA046519, AA648676, AA159091, AI032839, AA136030, AA583776, H28894, AA848077, F33112, AA910294, AW016492, AA678502, AI916065, N88118, AA350391, R44633, AA082176, H03994, W72821, AW166715, AW149167, H45880, N78326, AA046611, R44522, AI245126, R16997, H03195, AW021036, AA355730, AA598543, AI873982, AI203820, AI559841, H27347, AI590119, AA724015, AI243914, N76000, AW271164, AA482202, AA344508, H28893, H62505, AL117455, and AC004466.
					AI355562, N27028, AA501942, AA365628, W23276, AA336529, AI733856, AW069227, AA847499, AI634187, AW328331, AW203111, AW327624, AA410788, AI791185, AI457313, AA526683, AI284640, AI859438, AI821076, AI056177, AW069769, AA904275, W341903, AA630854, AI287766, AI491765, AA502991, AA584489, AI254770, AI046409, AA581903, AI079734, AI755214, AI754567, AA228778, AI114557, AA535216, AA515351, AI284543, AI431303, AI754105, AI282479, AW407578, AA809546, AI251034, AI223626, AI250552, AW085751, AI251284, AW271904, AI963720, AI135377, AA669155, AI923030, AA833875, AA833896, AI186438, AI912401, AI047349, AW193265, AW026305, AI133552, AI457397, AW303098, AW057666, AI251203, AI421950, AI419337, AI114733, AW265688, AW023672, AI249853, AW303196, T74524, AI310670, AI199816, AA513851, AI419262, AI049676, AI278440, AI277373, AI284126, AI133164, AW029515, AI587349, AI473995, AI274349,
HDTUP10	8802	963456	1 - 606	15 - 620	

AW275432, AW301350, AA916430, AL349130, AW021583, AL332615, AA640685, AA613627, AI049630, AI129746, AI679002, F36273, AL267269, AI361090, AW328000, AW157005, AA469451, AL270117, AA491814, AI017251, AW169038, AW073470, AA832016, AW328446, AW167330, T05834, AA584484, A W088846, AI380617, AA610433, AI267356, AI267450, AI669421, AI446623, AW084445, AI065038, AI345681, AI345675, AW277723, AP000555, AC005216, AC006509, AC004455, AC007488, AC004963, AP000114, AP000046, AL008583, AF196972, AC003101, AL022323, AC002470, Z93848, AC005527, AL049760, AC006236, U63721, AC004000, D84394, AL049776, AL049643, AC004253, AF111167, AL033527, AC007786, AC005015, AC007216, AL133163, AP000302, AC005261, L78810, AC004109, AC004921, AC003662, AC005409, AC005006, AC002991, AC005529, AC004027, AC002456, AC004386, AL139054, U62292, AC004975, AC005088, AC007151, AF196779, AC006946, AP000563, AC006088, AC005606, AC005971, AF165926, AC007277, AC002316, AP000211, AP000133, AL132777, AL035423, AL020997, AL022163, U78027, U91323, Z82206, AC000353, AB001523, AC000479, AL031683, AC005697, AC005972, AC006080, AC006333, D87675, AC004526, AP000103, AC005907, AL023284, AL035422, AC007546, AL096702, AC010205, AC005005, AC007227, AC005736, AC006511, AC007066, AC005089, AC002314, AF108083, AD000090, AL031589, AC004953, AC007406, AC007664, AC007308, AB026899, AC007934, AC005363, AC002492, AC005184, AL035420, AC005486, AF196969, AF001549, AC002301, AJ003147, Z98752, AC005619, AC005921, AC006157, AC002480, AC005399, AC006014, AC003663, AC007919, AL109952, Z93023, AC007537, AC005484, AC007878, AC003014, AC006238, Y10196, AC005274, AL035695, AP000553, AL133448, AC005288, AC007172, AC000397, AC006312, Z84466, AC005207, AC000025, AC003109, AC005482, AL109829, AC005844, AL078615, AC004033, AC002288, AC006285, AC004032, AC020663, AL035086, AL133245, AL109623, U95742, AC005591, AL049631, AC005225, AC004895, AC004841, AF111168, AC005300, AB023049, AL031432, AC006211, Z85987, AL133396, AC007011, AF207550, AD001527, AC006449, AC005368, AC006050, AL034417, AF114156, AL049856, AC002045, AC003036, AC004534, AC008064, AC005578, AF031076, U80459, AL034549, AC008056, AC005618, AP000031, AC004967, AC005940, AP000500, Z98050, AC004821, AC004890, AL050307, AC005082, AC004234, AF033356, U52112, AC005666, AL049839, AC005763, AC006556, AC007242, AC003963, AC016025, AC005338, AL024498, Z85986, AC007911, AC005331, Z83840, AC008273, AL023375, AC005701, AL110502, U47924, AC005220, AC007637, AC005183, AC007225, AP000557, AC004596, Z69917, AC005488, AC007193, AL096791, AC003669, AC005581, AC005755, AL020993, AC002059, AC004099, Z82254, AL035684, AC007731, AC005520, AC004835, AC005500, Z82243, AC002117, AC004602, Z83826, AC004815, AL035079, AL034548, AC005095, AL035413, AC006026, AC006023, AC009946, AC003102, AL031650, AC005083, AC006071, AL031721, and AC005094.				
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HDITJF29	8803	887186	1 - 676	15 - 690	AI250783, AW391672, AI240525, AW390571, AW391632, AW392670, U46347, AL119324, AL119457, AI043003, AL119484, AL119399, AL119439, AW384394, AW363220, AL119319, AL119443, U46351, U46350, AL119391, Z99396, AL119363, AW372827, AL119497, AL042544, AL119355, U46349, AL119522, U46341, AL119444, AL119483, AL119418, AL119396, AL134530, AL134519, AL134528, AL119341, AL134531, AL037205, AL119401, AL134132, AL134527, AL043147, U46346, AL119335, AL134533, AL119464, AL042542, AL119496, AL134538, U46345, AL042614, AL043019, AL042989, AL042450, AL042965, AL042975, AL043029, AI142134, AL042551, AB026436, AB060234, AB066494, AR054110, AR1671, and AR069079.
HDITJF05	8804	931977	1 - 589	15 - 603	AA425488, AA496895, AA330351, H55595, AF000556, and AF000557.
HDITJ074	8805	933606	1 - 520	15 - 534	AW293197, AW293194, R09230, AA350736, and AA310814.
HDITJ016	8806	934151	1 - 708	15 - 722	W26496, N57723, N52977, AA004838, H56093, N32636, H54711, R97812, AA422017, AI434982, R34827, AI365246, AW149465, N53236, R97527, W04839, W27301, W17360, AI952152, AW197683, AW300911, R93262, AI627239, AW368243, AW118723, R81605, AW301730, AA347582, N42589, AA521269, AA279227, N35846, N55666, AA279276, W207386, AA74257, AT91321, AT91441, AA401856, W73744, AA912709, W32659, AI457999, AA035799, W73796, AW149460, AI952156, AA825542, AW043735, AA279170, AA843886, AI004999, AI204320, H43539, AI928422, AH453601, AA628709, AI887910, AA814386, AI138354, AF072880, AF112205, AL110243, AF106683, AF069313, AL110269, AF033186, AF106684, and AF147442.
HDITJG62	8807	851951	1 - 500	15 - 514	AA700898, AA768022, AA813637, AA737687, AA767493, AI590110, and AC004585.
HDITJ448	8808	851944	1 - 760	15 - 774	AI686160, AA758552, AI051885, AI039783, and AA890108.
HDITJ079	8809	774217	1 - 570	15 - 584	AA284279, AI027731, AI200797, W47103, W47227, AI693941, AW298283, AI222304, AA815341, AI216510, AA813403, and AF086197.
HDTHS05	8810	926048	1 - 887	15 - 901	AA253336, AA252921, AA253337, W22197, H27708, R53233, M85815, AA428556, AI745023, AW367630, AW922917, AW363034, AA705731, H66556, AI952500, AA676981, AA640067, T31521, R02288, H70507, AA011599, AW089024, AW368517, R359789, AA298276, AA878199, H91633, R06356, N99822, and AB018271.
HDTHP45	8811	841796	1 - 436	15 - 450	AC007458.
HDTHI02	8812	918728	1 - 468	15 - 482	AA441986, AA441987, AI051488, AL119444, AL119363, and AL134538.
HDTHG69	8813	754464	1 - 347	15 - 361	R05736, and AC001226.
HDTHG32	8814	851964	1 - 686	15 - 700	AW295293, AA005236, AW293791, AA564263, AA005235, and AL024494.
HDTHA77	8815	771334	1 - 594	15 - 608	R54682, T33389, AA028933, T86103, AI700021, and T83729.
HDITG162	8816	742828	1 - 479	15 - 493	R10737, R10755, and AW206939.
HDITGQ31	8817	697539	1 - 368	15 - 382	W57998, AA082443, AI979163, N50386, AA730309, AA282104, AL046056, and AF191338.
HDITGH10	8818	963966	1 - 399	15 - 413	AA968621, and AA911679.

HDITG27	8819	682687	1 - 417	15 - 431	T87471.
HDITF46	8820	915075	1 - 489	15 - 503	T91421, A1244540, W95606, AA513866, and Z69706.
HDITF42	8821	713399	1 - 552	15 - 566	AA251180, and AA284335.
HDITF93	8822	792077	1 - 654	15 - 668	R56502.
HDITF38	8823	706752	1 - 592	15 - 606	N67992, AA018753, AA216176, and AC007283.
HDITF127	8824	682705	1 - 635	15 - 649	AI424830, AI457466, AI670852, AW188237, AW339932, AI373737, AW299809, AW299801, T65024, A1215514, AW268571, AI275416, AI806477, AI420494, AI431933, AI697604, AW194622, and HI8633.
HDITF615	8825	913812	1 - 518	15 - 532	AI948523, AI870933, AI056919, AI951357, AI669067, AI421240, AI829531, AW026102, N95469, AW761702, AI422906, AI985084, R39935, AI500348, T58434, AI971673, AI620958, AI368450, AA825904, AI950288, T58466, T16707, AA903364, AI648626, AA262655, D25575, C21036, and AA255726.
HDITET62	8826	587822	1 - 753	15 - 767	AA058837, H85875, AA866204, D62678, and AW023681.
HDITF57	8827	872215	1 - 462	15 - 476	HI4223, and R90827.
HDITDS89	8828	799881	1 - 258	15 - 272	AI121748.
HDITDS44	8829	799863	1 - 430	15 - 444	
HDITDP20	8830	883680	1 - 412	15 - 426	
HDITDP02	8831	919572	1 - 436	15 - 450	T11249, AF207598, AFI57833, AF205065, and T11264.
					N46884, AI741360, AA677764, R10708, AI751761, AI333381, AI305001, AI538973, N71175, AA779766, AI589032, AI086570, AI761580, AI885734, AW131854, AI028092, AW054930, AA843208, AI188410, AI457118, AW338608, AA574231, AA224194, AI21082, AI149382, AA918408, AW166459, AI332782, AI183618, H46974, AI359210, AI969702, AFI51872, and AI110239.
HDITDL15	8832	851999	1 - 405	15 - 419	AW119198, AW268984, AW291411, AI699375, AI538081, AI880221, AI989588, AA936261, AW744022, AA743306, AA744319, and AA744343.
HDITD444	8833	587742	1 - 521	15 - 535	AI003653, H92228, AI370273, AA708248, AA018367, AA069415, H85653, H86634, and AA017687.
HDITDG89	8834	799870	1 - 403	15 - 417	
HDITDD88	8835	615173	1 - 426	15 - 440	AA496215, AA196044, U53093, AA496217, AA055124, AA055135, and AW387762.
HDITDD72	8836	587710	1 - 520	15 - 534	AI459473, AI065079, AI207423, AI064695, AI133218, AI133420, AI133314, AI061660, AI064797, AI088848, AI037870, AI037849, AI048429, AI884494, AI833147, AI717995, AI709394, AI832355, AI924211, AI720552, AI653760, AW007608, AI064831, C18852, AA669077, AI174665, AA468404, AI750150, AA533828, AI133004, AA659265, AA594049, AI037048, AA630170, AI912529, AI434498, AI459425, AA575977, AW275829, AA386596, AI215649, AW270021, AI124928, AA578589, AA548849, AI832732, AA098789, AI628930, AW004905, AI720986, AG30251, AI683207, AW149630, AA886490, AA595864, AI028073, AI880409, AW188463, AA075342, AI635477, AW168232, AI720912, AI133259, AA226261,

HD1DD70	8837	757088	1 - 453	15 - 467	AT766356, AA493969, A1557254, AW166013, AA650306, AA481885, AA224000, AA643797, AA522984, AA630934, AA635953, AA640561, AA081407, AA487595, A1523371, AA928597, AA641058, AA196188, A1714946, A1720139, AA223926, A1207597, A1917042, AA485715, AA713869, A1114770, A1581199, A1282481, AA434248, AA888285, A1937496, AA661972, AA610388, AA655025, AA654984, A1566184, AA565126, AA579042, AA468098, A1619745, A1281861, A1880360, AA846579, A1566210, A1748749, A1673024, AA490180, AW439689, A1459556, A151854, A1705642, AA565898, AA640469, A114764, A1114776, A17276852, AA633781, AA487063, AA494046, A1440020, A1719804, AA557411, AA525479, A1133099, AA554077, AA151927, A1749073, A1810944, AA564042, A1719813, A17264074, AA831811, A1710761, AA689249, AA658941, A1778602, A1749006, A1819696, A1557330, AA458961, A1525681, AA664578, AA708303, A1708946, AA541550, AA569249, C17580, AA069723, A1832960, A1715954, A1832523, A1621867, A1459634, A1523380, A1782232, A165955, AA429018, AA487982, A171686, AA469406, AA640693, A1133698, AA483365, A1453511, A1987421, A1630887, A1289950, AA654821, A1932808, A1907036, AA523493, AA092811, A1782565, A1110646, A127653, AA524676, AA594572, A1707831, A1987694, A1224374, AA642859, AA665359, A1749484, AA886120, AA226553, A1749741, AA654759, A1220859, A1130968, A1830077, A1110645, A1216405, A1879900, A1798362, AA467980, A1748977, AA503933, Z98453, C18031, A1863894, A17270540, A129234, A1207835, A1560053, A192171, AA635254, A17005658, AA702315, AA635387, A1180752, A1636965, C17988, A1871732, AA52550, AA825856, A1036180, A1002449, A10073816, AA630259, A1832769, A1557197, A1281571, A1075402, A1832630, A1833305, AA229013, AA433875, A1149804, AA468444, AA69277, A1582341, A1720352, AA652848, AA661464, AA523743, A1148381, AA635244, A1833208, A1833301, AA209412, A1005955, AA715602, AA654048, AA216162, A1129443, A1253348, X62996, X93334, D38112, V00662, I01415, A1734583, X93335, D38116, D38113, Y17171, Y18001, S55589, Y17179, and AF004340. R07618.
HD1DD67	8838	754739	1 - 458	15 - 472	AA358812, AA308023, and AA419789.
HD1DD15	8839	668754	1 - 415	15 - 429	A1018089, AA488552, T30640, T171401, W31697, W19918, AA165100, R08686, H78637, N90337, T99588, Z41909, W25292, AA165080, R79674, R34212, N77082, N78438, AA150886, T82168, T85462, R77046, W56864, H95034, AA888217, R19848, AA314539, W25298, AW408479, A1114871, U83194, and A1721856.
HD1DC74	8840	799868	1 - 501	15 - 515	RO0207, R08120, A1001417, and AF078749.
HD1DC64	8841	799871	1 - 424	15 - 438	
HD1DC38	8842	706741	1 - 613	15 - 627	
HD1DC30	8843	692063	1 - 276	15 - 290	H09128, AW276933, N51140, AA321595, AA975915, A1273675, AW183603, A1268564, A1138918, AA741020, A1371804, H70669, AA446782, A1041398, A1798242, AA720913, H30560, AA721582, AA828045, AA831638, AA774960, R95030, AA528688, A1610376, N47882.

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HDITDB37	8844	587699	1 - 719	15 - 733	AA018755, A132451, R45788, and AA247911.
HDITDB21	8845	587700	1 - 699	15 - 713	W57976, W38117, AA642370, and AC005332.
HDITCC55	8846	934923	1 - 1574	15 - 1588	W37285, A1680188, A1691024, AA258999, AA088201, A410652, A1694271, A1016276, N76343, A1278104, AA496721, A1765185, A10783568, N54377, A1W206705, AA708774, A1193198, AA708517, AA689584, A1467892, AA745781, AA189110, AA843476, AA258177, H65702, AA707076, AW071574, A1092665, N49617, W37798, A1240773, H73843, A1188896, H65703, AW075591, H73169, N68588, A1683084, AA279200, A1224604, AA894491, N46923, and AC007253.
HDITCC01	8847	916455	1 - 660	15 - 674	A1026818, A1144071, A1370045, A1311520, A1308578, A1334555, A1521589, A1952780, AA643261, AL080011, AA834534, A1862385, R81679, AA828045, AA360609, A133293, A1671661, H90114, A1118912, T31942, A1560119, AA420729, T94072, AA809186, A1332671, AA535483, AW189804, AA721581, A1W167202, A1679747, A1137705, A1110280, AC004883, AC004966, A117337, AC004987, A1021393, AP000020, AC007390, AC002365, A1035420, AP000355, AC004686, A1137479, AC005086, AC004690, A1031732, A113694, AD000813, A1023318, A1F196779, AC005902, AC006561, Z77249, A1031984, AP000133, AP000211, AC007993, AP000504, A1035438, Z83820, AC006241, AC012085, AC005940, AC002588, AC005225, Z99297, A1022320, AC002314, A1031295, AC005920, A1033397, AC002563, A121603, AC006059, Z83838, A1034400, AC005291, AC002477, AC007172, AC007308, A1F09907, A1035461, A1008637, AC004383, U62317, AP000013, AC005520, AC004808, AC005091, A1035587, A1049795, AC005015, A1049872, AC002312, A1035407, U91323, AC000026, AC006112, AC005320, A1034417, A1F19633, A1031230, AC007262, Z96074, AF042090, Z94721, X87344, AC003101, AP000344, A1F196972, L78810, P84401, A1022316, A1022165, A1021155, Z49258, Y07848, Z92542, AC005924, AF059091, AC004560, AC00527, AB023053, AC002287, AP000556, AC002527, AP000250, AP000030, AC0066236, AC004822, AC004841, AC016027, AC004513, U95739, A1021407, U80017, AF005911, AC0020663, A1177339, AC005207, AC005488, AC004659, A1031281, AC005670, A1023384, A1129756,

					AC002558, AP000130, AP000208, AL034374, AL050318, AP000045, U85195, AP000247, AC004943, AC003950, AL031289, Z85987, AC004191, AC005820, AF024533, AL031228, AE000658, AC007030, AL003147, AC018767, AC004797, AC006504, AC007656, AC005088, AC005081, AL009674, AC002072, and AC005229.
					AI652677, AW374334, T08905, and AF196972.
HD1B283	8848	842950	1 - 441	15 - 455	
HD1BV06	8849	935393	1 - 476	15 - 490	AI19248, and AC002076.
HD1BU73	8850	764410	1 - 707	15 - 721	R08992, and AA029661.
HD1BT35	8851	706730	1 - 786	15 - 800	N32495, N94866, AI239947, AA714897, AA400836, and AA639183.
HD1BTS91	8852	789425	1 - 541	15 - 555	H20657.
HD1BTS45	8853	591589	1 - 450	15 - 464	AA777234, AA705296, AI240824, AI982752, R07024, R07066, and AL110235.
HD1BTR39	8854	705350	1 - 768	15 - 782	AA460387.
HD1BTP84	8855	783024	1 - 488	15 - 502	AI767149, AA494182, AI927682, N74958, W05656, AA603309, AA747756, AI249573, AI433008, N49368, AA486131, AA349927, AI271126, AA661921, AI040342, H71429, AA279421, AL041619, AA490183, AL138455, AA838190, AI345157, AA584805, AI284640, AA618452, AW275510, AA984295, AA834707, AI270117, AL037683, AI694130, AW084466, AI963720, AA635739, AI580250, AI687343, AI700109, AW023865, AW069769, AI583283, AI953275, W45625, AW302903, H52274, AW102846, AI370074, AL045053, AI077608, AA634889, AI696962, AW088846, AA747070, AA584692, AA216412, AW264934, AL119713, AA101689, AW021735, AA179045, AL042420, AW024042, AI027459, AW169038, AI084294, AI821494, AA613397, AA613591, AI031973, AI950983, AI217937, AI4493695, AW235497, AW072487, AA584167, AI393931, AI305766, AI744826, AI805363, AI217936, AW163293, AW168618, AL046205, AF034184, AI370094, AW021597, AI431303, R24887, T41247, AA601673, AL038705, AW263415, AA811710, AI799642, AW149156, AC004030, AC004626, AC003066, AL049766, AF091512, AI021707, AC006041, AC002067, AI109865, AL080250, U95742, AI121603, AC003691, AC004933, AC005914, D83989, AI031665, AP001172, AC003101, AC004979, AC007590, AC005541, U02531, X55925, AC000354, AP000028, AC003119, AP000140, AL078604, Z82210, AC006155, AL035410, AP000088, AC006459, AF7988, U67231, AF135028, Z69666, AF061032, AC006537, AC004232, AL031300, AC005387, AC004204, AL035402, AC004940, AC008168, AC003692, Z98046, AC004901, AL008728, AL023755, AI121591, AC002564, AI022322, AC005998, AI035608, Z78022, AL035639, AL049544, AC007043, AL022163, AP0000365, AC004987, Z98753, AC004028, AC004130, Z86061, AF227510, AL034452, AC003075, AC005026, AC004638, AC005048, AC003683, AP000548, AL096861, AC003977, AC004592, Z94771, AC004861, AL049649, AC004069, AL031904, AC002430, AC004691, AC004690, AC006998, Z84469, AC006058, AL031311, AC008033, U91326, AC007214, AF042090, AC006512, AC005242, AC006213, AC002549, AC005220, AL023284, AC007384, AL049834, AC010170, AC007514, AP000962, AL133445, AC006045, AL031123, AC005291, AC007298, AC001549, AC006288,

HD/TBM53	8856	727526	1 - 138	15 - 152	U66059, AL121578, X54178, AC007688, Z98051, AC000455, AL008725, AL022310, Z99495, AC005544, AC006080, AC005284, AC005071, AC005046, AC009784, U18395, AC007201, AC007022, AL031965, AC003964, AL022098, Z86064, AL022311, AP000507, AL030997, AC005216, AL031785, AC0004895, AC005535, AC007073, AP001137, D84394, AL032822, AF055481, Z69715, AC005575, AC004775, AC004538, AC012627, AL080316, Z94722, AC002119, AC004675, AC007193, AC004453, AF088219, AC003986, AC005406, X06123, X55929, AP000473, AL021978, X61109, AC005790, AC005335, AF176915, AC004833, AP000275, AL031319, AP000037, AP000105, AP000477, AL021393, Z99571, AC007032, AC007751, AC005740, U18394, U18391, X54181, X55926, X03272, Z87373, AL035466, AL049749, AP000091, AC005231, AL109618, AL031680, AC006205, AC004518, AC002526, AC007510, AC018769, AP000236, AP000354, AC007677, AC004386, AC008249, AC007274, AF015147, AC005567, AC005787, AC005217, AL022315, AC008115, AC005324, AJ003147, AF015149, Y14782, U67217, U67211, U67233, S43650, Z93022, AC004006, AL049709, AL078463, AL031116, AC007955, AC007462, AL136297, AC004894, AL133249, AC000472, AL133321, AL050097, X73730, X73534, AF126531, AJ251029, AF010238, AF094481, AP000297, AP000328, U63630, AP000257, Z69719, and Z81450.
HD/TBM53	8856	727526	1 - 138	15 - 152	AC005666.
HD/TBM53	8857	697918	1 - 514	15 - 528	AL686737, AL668675, N93503, N93496, and AT734225.
HD/TBK62	8858	742603	1 - 208	15 - 222	AA568869, AA515334, AA661971, F12561, AA689526, AL580250, AW002350, AW149313, AB873990, AL524360, AL583283, AA468022, AL866432, AA468131, AA747433, AA580808, AV438643, AA468244, AD247199, AA483771, AW186818, AW196064, T89972, AA063173, AA526536, AA828749, AB24706, AL036037, A1919265, AA501762, AW724349, CO4544, AW507199, AD284640, AW438853, AA857486, AB873852, AA482681, AA526758, AA665199, XW031956, AA491797, AA467820, AW264934, AA595499, AA431303, AA535406, AA309530, AA812281, AA644070, AB001482, AW301350, AW193265, AA490183, AA526779, AL502211, AL119691, AL636730, AA515905, AA847516, F29184, AL044858, AW408047, AB003751, AA526630, AL305766, AW270382, AW182304, AW023990, AL120933, AL113182, TS1054, MB6120, AA469451, AA679532, AL064609, AA579366, AL047427, AA618206, AA188664, AD245157, AB889388, F17891, AB13280, AA631507, AL048626, AA602047, AA502103, AL610435, WA5625, AW407578, AA650208, AA584201, AL042853, AL358431, AT754658, AL119724, AB860013, AB69406, AB687343, AA847622, AA516226, AL118991, AW050734, AA225072, AT797903, AW074419, AA581903, AA828042, AB16141, AA569471, AA362511, AA505854, AW270258, AW328171, AW327868, AA629992, AA584805, AB281881, AL120269, AW103758, U57005, U18388, U57008, X54179, L47228, X55929, X55933, U18390, X75535, U67825, U18400, X55925, U18394, U18395, U57006, U18398, U57009, X55927, X74558, U18391, X55931, U67826, U51997, U57007, U18393, U18387, U57004, X55926, X55923, X54177, X54180, X54178, X55922, D83989, X54181, X5415, X76666, AF015149.

					AL031985, X53550, U67830, AF0015147, U04335, AF162270, AB012179, U67801, M37551, U67832, AF015153, U67217, U67222, U67211, AF015157, AC007934, AF015156, U67231, AF077058, U67233, U67230, AF015151, AL050097, Z79422, U67226, U02531, AL132712, U67229, X88791, AF088035, U71148, AL031681, AP000359, AL024508, AP001040, AP000088, AC004647, U02532, U67235, Z78833, S83362, Z96074, AL121655, AL246003, Y09781, U09335, AL110120, AL136295, U67228, U67227, S56773, AL031276, AL031255, AC007308, AC004920, AL110172, AC007385, AL121658, AL035652, AC009330, AC006265, AF012654, AC005071, A67988, AC004678, U67216, X14448, Z86090, AL109984, Y18000, Z82244, Z74739, AC001163, AC002563, AC002094, AC008012, AL132800, AC006270, Z99754, AC004882, AC003101, U43572, AL031283, AL133241, AL008719, AC005264, AL096765, AC005567, AF016830, AC007387, AC006515, AC006409, U38676, AC007774, AC007350, AP00103, AF069508, U91326, M96868, AC002564, AC005529, AC005102, AC005844, M37547, AL023353, AC004152, AF017257, AC005231, AC002375, D26163, AC007014, S83170, AF042836, AC000552, AC009247, AL034451, AC004002, AL096701, AC004652, AC004000, AC002316, AC016027, AC002126, AC004751, U38669, AL034417, U90546, AC004858, AL023807, AP000008, AL031588, AC005180, AC004671, AC006251, AC005785, AC004922, AL009181, AC005846, AC004099, AC005039, AC005933, AL133276, AL009031, AC008040, AC009510, U62317, AC004972, AC002430, AP000704, AC002326, Z82190, AC009542, AC004019, AC003664, AL225085, AL135746, AC005781, AC003682, AC006432, Z49816, AC004673, M84472, AL035072, AP000555, Z83844, X98173, S43650, AL122023, AL121769, U78027, AC006002, AC007384, AC004149, AC004794, AC004777, AL031844, AC004216, AL049780, AP000300, AL021977, AC005081, AC005182, AC007055, AF199339, AF111167, AC005899, AL136504, AC005754, Z98050, X98172, Z83840, U66059, AP000249, U52112, AL023494, AC006252, U32576, AC005745, U91985, AC005908, AF001549, and AL031668.
HDTBG80	8859	916167	1 - 821	15 - 835	AA075174, AA780368, AA608609, AA116112, N23422, AA426183, AA919127, A051104, AA778513, AA861163, AL263419, AA844710, AL08998, AL016753, AL146269, R89012, AA875826, AL334311, AC832331, T66141, AA890409, AA594107, H57164, W47366, W93467, AA447722, AL276282, T58760, AA805142, AL150612, AL1660146, AL271554, AL1306121, AL911815, AL223452, AA417020, N56558, AA553689, AA424729, F09765, AL193223, AL972680, AL707534, AA748812, AA860315, AA116113, AW136275, W47365, AA740503, AA447882, AP000223, AP000085, and AP000086.
HDTBD67	8860	899636	1 - 2233	15 - 2247	AW242597, AV0690886, AL148152, AL125778, AL431242, Z99396, AW392670, AL044652, AA362688, AL134524, AA362689, T29199, AA362690, AW372827, AL119522, AL1432646, AL119457, AL119324, AL119319, U46351, AL119401, AL431305, AL042551, AL119484, AL119391, AL043019, U46350, U46347, AL037205, AW384394, AW363220, AL119418, AL119497, AL119355, AL119363, U46349, AL119439, AL119443, AL134525, U46341, AL119444, AL119483, AL119341, AL124139, AL119396, AL134536, AL042544, U46346,

				<p>AI142137, AI134527, AI119335, AI134902, AI134526, AI119399, AI042896, AI119496, AI134538, AI142132, U6345, AI042542, AI042614, AI042450, AI042984, AI042965, AI042975, AI043029, AI043003, AI119464, AR035224, A99045, A94046, A94054, AR038307, AR038321, AR067734, I25027, AR054109, I44515, I26928, I26937, I25041, I44516, AR009151, AR027099, I85513, AR009152, AR019098, I05393, AI0617, AR028792, A01324, A01323, AR034783, I63120, AR067733, A32110, AR064322, AR064323, AR064320, AR064321, A94048, A94061, AR067731, AR067732, I05430, A70359, AR019094, AR028791, AR028793, A92666, A92668, I49890, A92667, A83643, A92665, AR020199, AR020200, AR01287, AR020198, AR020197, I89986, AR029418, AR029417, I09121, AR068508, AR068510, AR068509, I91969, A29109, A32111, AR068550, A23373, AR068551, I58322, I58323, I07209, I07249, A63954, AR026436, AR066494, I09252, I09251, E01324, I08638, AR05065, I66498, I66497, I66496, I66486, I09270, I09268, I09269, A49701, I66495, I66494, A27169, A27170, A39929, A83151, I09267, I66487, A42964, Y17793, Z57961, AR051537, AR051524, AR069079, A30600, AR054110, AR060234, AR055066, and A81671.</p> <p>H91918, AI137201, and Z84572.</p>
HDTAU14	8861	658429	1 - 219	15 - 233
HDTAT80	8862	911928	1 - 2399	15 - 2413
HDTAP53	8863	728216	1 - 338	15 - 352
				<p>H48102, W39066, N57359, H53255, H63515, H70625, N54141, R96510, N57848, R97064, AI65538, AA745302, AA502532, AA808982, AA338193, D82544, T63054, AA373861, F08866, AA579188, AA356249, AA295039, AI270177, AA282951, AA525379, AA297698, AW419389, AA018517, AI917132, AA308598, AA975894, AA805018, AA715418, H86665, AA808847, AA568314, AA055987, AW243884, AA481887, AA180781, R96427, AI136026, T50251, AA808843, AA610433, R48980, AI918419, AA411590, AA909816, AI273148, AA678845, AA420691, AI742168, AA583579, Z97053, AC006011, AC007225, AP000555, AC005412, AI109738, AC006449, AI049569, AP000087, AC002425, AI024498, AI133448, AC005874, AFI34471, AI117258, AI031291, AC007308, AC005753, AC006088, AC004408, AC000085, AI021920, AF196969, AC005399, AI109984, AC005071, AC004883, Z95152, AC010202, AC007066, AC007388, AC005330, AC002369, AI049694, M89651, AC005632, AC006130, AC008040, AC005048, AC002250, AC007637, AI009178, AI133163, AD000092, AI121769, AC002300, AC004805, AFI72277, AP000694, AC005011, Z83844, Z83876, AC004933, AB023049, AC005696, AI021154, U80017, AC004996, AC002351, AI035072, AC008126, AC006001, AC008928, AC007917, AFI001550, AC000353, AC005089, AC004841, AC005520, AC005726, AC005009, AC005828, AFI65926, AFI001548, AC002059, AC006160, AI109801, AI031003, AC004985, AP000700, AC005480, U85195, AFI07045, Z97832, T78833, AI035417, AI022311, AI132712, Z84469, AB000882, AI031311, AC004019, AI022238, AI031666, AC006312, AB016897, U52111, AC004560, AI022243, AI035587, AC004923, AC004922, AI049795, AB007860, AC002040, AC004851, AB000658, AC004447, AC007565, AC005037, AI135245, Z84466, AI031848, AC004000, AI121825, AI136295, AC004967, AP000269,</p>

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HDTA15	8864	840327	1 - 703	15 - 717	AA151989, AA053806, AA877780, AB909954, AF161757, AL884981, AL359275, AA883559, AA029799, AL334302, AL927450, AL885711, AL401339, AL418850, AW089486, AL147258, AW007192, AW291421, AL423057, H02988, N21120, AA115357, AL400311, AA114858, AL052732, W78047, AA291538, AL458414, AL222211, AL568379, AL887327, AA526168, AA827153, AL127813, AL351870, AL400322, AL093742, AL148093, AL129777, AA479087, AA114856, AL082454, AA993306, AA419256, AA977759, AA885007, AL689072, AL085769, AA401889, AL225066, AA115236, AL359661, AL289273, AL582790, AL569549, H37803, AA193281, W81178, AA115458, AA293486, AL953381, AL084597, AW438966, AW300931, AA152074, H80087, AA115479, Z39506, AL423394, AL095106, AA916116, T79202, AA428124, AA479241, AA256520, AL571788, AA778279, AL474234, R94519, AA114855, AA634164, AA114857, W79466, AA593584, AA992871, AA031498, AL659464, AW339599, AL868579, AA614435, AW169783, T30237, AA035792, R06984, AA258598, H78840, T30871, H94218, R93668, AL873150, AA031544, AA258627, T79289, N31135, AL002277, AA302935, AA256627, AL015755, H37853, AA321801, AL828773, and AL953237.
HDTAE60	8865	810259	1 - 306	15 - 320	AA905241, R07845, AA484618, AA876674, AA927025, AA969580, AW015936, F27760, AL560279, AL077875, AA657632, AW274260, AL130748, AA531437, AA888258, AA926970, AL344732, AL039009, AL832645, T25895, AA664996, AL092827, AA244132, AA541603, AW363453, AW363455, AW373552, AW373548, AW363452, AL150756, F30920, AL289147, AL537640, W80487, AA780729, AA603795, AA864997, AA524049, AL023676, AL947143, F20520, AL911004, AL000638, AL283651, AA704855, C04467, AA694524, F22719, AA534561, AA694164, AA627396, F27614, AW9538, AA318284, F33783, F33364, AL686496, F27676, AA903996, AA244131, F35313, AW373558, T74772, F33405, D51606, AW363451, AA730436, AL749712, AW363456, F30071, AT089882, F24555, N80149, F27522, R08804, AA317435,

					F30100, F34894, F22313, F35771, F33982, AW373549, AA096277, AA327732, AC008044, and AC008372.
HDTAE44	8866	799902	1 - 397	15 - 411	F07105, and AI080219.
HDTAE29	8867	780991	1 - 435	15 - 449	AA292713, AW170280, AI091066, AA112320, AA740290, AA469117, H07025, and AA632483.
HDTAE16	8868	661997	1 - 425	15 - 439	AI564468.
HDTAE09	8869	799874	1 - 404	15 - 418	T78925.
HDTAB89	8870	786039	1 - 383	15 - 397	
HDTAA31	8871	937609	1 - 1420	15 - 1434	AI219793, AA629254, AW104724, AI567846, AI590227, AI439717, AI568855, AW148320, AW151485, AI036361, AI538716, AT02068, AI828731, AI445025, AI538829, AI536638, AI637584, AW132056, AI890833, AI926790, AI432969, AI564719, AI811344, AI619502, AI802542, AW026882, AI538259, AI079963, AW103371, AI433157, AT02073, AI866801, AW262565, AI815855, AW198090, AI0269862, AI269205, AI801766, AI634737, AI047763, AI249257, AI624206, AI038605, AI921248, AI696612, AI274508, AW149869, AI043981, AI871697, AI627360, AI491852, AI889376, AI043326, AI682841, AI524671, AW008048, AW087445, AI349004, AI249323, AI274541, AW268220, AI439745, AI469393, AI872711, AW301505, AI480118, AI040243, AI287489, AW085799, AT783504, AI620284, AI612913, AI559296, AI569583, AI470491, AI254731, AI677796, AI036396, AW301409, AI500523, AI580984, AI431327, AI521012, AI284484, AI625079, AI590128, AW071349, AI800453, AW071417, AI570909, AI440239, AI537303, AW087207, AI036146, AI635461, AI045266, AI648509, AW403717, AI036403, AI610756, AI135661, AI445432, AI571909, AI080032, AI922901, AI284131, AI340582, AT024006, AA225339, AI591316, AI045500, AW118398, AW274192, AI268696, AI819326, AI560099, AI446628, AI633419, AT289937, AW086113, AI036802, AI687728, AW090013, AI815232, AI758437, AI539780, AI576128, AI800706, AI250293, AW148363, AI224992, AT799199, AI554427, AA508692, AI818683, AI801544, AI499463, AI590999, AI952360, AI636445, AI273048, AW118512, AW131954, AW149851, AI539771, AW196141, AI612920, AI567351, AI554484, AI868831, AI912866, AI571551, AI690312, AI270707, AT275175, AI281837, AW238730, AI281779, AI570384, AI349772, AI857296, AI537677, AW002342, AI590120, AI475451, AI569616, AI571861, AI439776, AT02433, AI572787, AI273142, AI282281, AW082040, AI609593, AI673710, AW075551, AI925156, AI886753, AI612759, AI281762, AI869367, AI784252, AI349933, AI800433, AI121463, AW055413, AW166903, AW075667, AI500077, AW051258, AI349645, AI038565, AI624084, AI498579, AI445165, AA427700, AI866002, AW148408, AW166583, AW268251, AW080327, AW169653, AI648684, AI634345, AI610645, AI491897, AI038779, AW074993, AI349614, AI690480, AI521040, AI866608, AI343112, AI580190, AI920968, AW169132, AW195968, AI348897, AI862144, AW268253, AI567612, AI349598, AA835801, AI925196, AI097410, AI312152, AI687127, AI636719, AI539153, AI036265, AI345735, AI312428, AI431975, AI640928, AI687362, AW075084, AI134259, AI590664, AI349937, AW073270,

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HDRAC08	8872	963325	1 - 436	15 - 450	AL040453, AA111930, AW245617, AL066425, AL281116, W73912, W73913, A1887964, AA707826, AA983585, AA147338, AL279720, A2825091, AT796028, A016807, AW207093, AW301179, A1825596, A1910479, A1376001, A1160598, A1208192, A1033830, A1137387, AA975620, A1760601, H59137, AW242126, H24343, AA551994, AT767833, AA988692, K20517, R44410, N64714, A1918035, D82491, AA857846, D20263, A1373937, W19642, F13806, D82398, AA147361, AW176269, A1828332, A1758708, and W04598.
HDQPR06	8873	936658	1 - 815	15 - 829	AW276983, AW206541, AA418882, A1298636, AA290805, A127225, AW368344, A1762472,

HDQPP57	8874	926953	1 - 711	15 - 725	T73087, AL110913, AL335529, AA7474869, AL291928, AL338925, AF112221, and AB020678.
HDQI008	8875	958252	1 - 456	15 - 470	H80171, AA971126, and T80926.
HDQHU84	8876	782202	1 - 431	15 - 445	AA010427.
					AW135842, AL185102, AL521545, N71336, AL374790, AL093509, H47630, AA580199, AL870424, AL935765, AA973252, AL538850, AL249946, AL090661, AL679550, AA514684, AW167422, AL687482, AA026905, AL033992, AL432570, AL684164, AL370322, AL440444, AL591407, AL250627, AW075921, AL1817543, AL610318, AA243996, AW366372, AL063191, AL954721, AL242931, AL356929, AL270039, AL890391, AL570264, AW152415, AL089970, AL954721, AL679214, AL570857, AW089932, AL491904, AL624693, AL803740, AL682121, AL539800, AW265004, AW166612, AW090102, AL446785, AL1811912, AL830187, AW105665, AW167215, AW192461, AL439903, AL918370, AL046942, AL365256, AL687568, AW236186, AL022996, AL309589, AL685822, AL630947, AL829893, AL952306, AW131994, AL783569, AW020480, AL689614, AW170773, AW168503, AW163464, AL758988, AW008083, AL680498, AL653402, AL540179, AL470293, AW082532, AL569616, AW169234, AL582900, AW104117, AL539687, AW088438, AL117635, S78453, AL133557, AL59615, I80062, S61953, I66342, AL137547, AL137298, U89906, AB007812, AB025103, AF114784, AL137471, AL003118, AF182215, AL117648, X89102, AF194030, X59414, X84990, AL133559, AL109683, AL133113, E08517, E15582, A21103, AF131773, Y08864, AF081197, AF081195, L10353, S77771, AL1080159, AL192557, AL133062, AF061981, AF207750, A08915, AL1877, AR029580, U70981, I22020, AL137294, E01963, AF114170, AL133084, U75378, AL137268, AB028451, AF106945, AF000145, AF028823, AF065135, AF132676, AF200416, AF061836, AL117443, X62773, AR038969, AL080148, AP000083, S78214, AL137539, and N71386.
HDQHO94	8877	793387	1 - 114	15 - 128	AA211827, and AA236750.
HDQH004	8878	926978	1 - 630	15 - 644	AA592982, RL17976, AL104353, AA584604, AL982975, and AW206259.
HDQGW10	8879	963512	1 - 464	15 - 478	AW207166, R62452, AA570462, AW131259, U95742, and AC007216.
HDQGF78	8880	772952	1 - 546	15 - 560	R83407, and AC003086.
HDQFT10	8881	852587	1 - 685	15 - 699	AA864468, AL733017, and AL791415.
HDQFE39	8882	852593	1 - 805	15 - 819	AA765774.
HDQFE93	8883	791724	1 - 1181	15 - 1195	T75255, H82395, R21558, H15880, FL2818, Z42224, R13241, and F12817.
HDQEX85	8884	875473	1 - 495	15 - 509	AA002220, H63472, AA307783, AA478844, AL676034, AW364878, AL174745, AL682476, C04105, AA481986, U47346, R10969, T49897, and AL096740.
					AA128013, AA128008, AA128056, and AA128032.
HDQEW83	8885	780551	1 - 582	15 - 596	AA525048.
HDQEW11	8886	966126	1 - 316	15 - 330	T70748, AA584765, H86388, AL801563, AW167773, AA662629, AA572718, P27846, AL031427, Z97630, AL050318, AC007308, AL035423, AL109628, AC006121, T79206, AF053356, AC005255, AC006064, AC005592, AC005102, AL239325, AC005971, AL035443, AL132771,
HDQFT29	8887	852618	1 - 459	15 - 473	

HDQEQ10	8888	963533	1-618	15-632	<p>AC004228, AL022316, AL121595, AL021391, AL021578, AC005361, AL096817, AC001052, AC007899, AL008582, AC005844, AL031670, 281002, AP000688, AP001052, AC005377, AC005527, AL031295, AC007546, AC006312, AL049761, AL078602, AP000504, AC012627, AC005516, AL034553, AL022313, AF111169, AC006985, AC004985, AC002347, AC005529, AF129736, AC005412, AC002470, AC003109, AC004254, AC006453, 299716, 283822, AC004253, and AC005610.</p> <p>AA558617, AA825712, AA806536, A1537533, A136120, AA506386, AA721171, AA559219, AT754064, AT754257, AL041375, A1086603, A148507, A0699227, A1933714, R22196, D29248, A1623764, A1283329, AA233462, AA113757, AA584125, AA714110, 55424, H66812, AA127426, AA669155, A1W272606, A1300597, A1524360, A13037910, N23896, H29019, A1065031, A1738741, A1417496, AA347232, A1904840, AA608729, A1007151, AC004587, U37450, AC004797, AL021392, 284488, AC004883, A1096632, A1069977, AC004955, AP000694, AC003962, AC005899, AC006441, AC004743, AL021155, 295116, AL049570, AP000359, AC007227, AC005776, AC000159, AC005399, AC006511, AC006285, AC004887, AC006084, AC003109, AC005589, AC007637, AL035694, AC004821, AL031289, AC007226, AC004820, AC002316, AC005519, AC007763, AC005520, AL133448, AF053536, AC006948, AP001065, AC004799, AP000116, AL035450, AC000007, AC005781, AC002091, AC006111, AL049795, AC006538, AC004382, AC005081, AC004383, AC008055, AL031005, AL139054, AL031228, AL050321, AC002558, AC004583, AP000553, AC004225, AC009516, AL049538, AP000348, AC006101, AC003071, AL031584, AC002546, AL031282, AC002663, AC005525, AC005971, AC008126, AL035249, AC005164, AP000049, AC004031, AC006449, AC007688, AC007566, Y07555, AL031283, AC005940, AC004526, 293244, AC000311, AC002429, AC005529, AL031293, U78027, AC007376, AC005280, 286090, AC005800, AP000689, AC004148, AC004973, AF001548, AL121653, AC004019, AC007386, AL035422, AF064857, AC006014, AL121658, AL034553, AC005828, AC007055, AC004771, AL132641, A1003147, AC003108, AC006077, AC004895, AC006241, AL049552, AC005288, AC006271, AC004703, U85195, AL075883, 293023, AF111168, AC005082, AC005512, AC002477, AC003589, AC003484, AC005754, AC007066, AL049576, AC002310, AL031311, AC007040, AC002398, AE000658, AL031427, 281450, AL035458, AL050348, AL031058, AC005202, AL035555, AC004884, AC005521, AC004834, AC004927, AB022537, AC008710, AC006130, AC007563, AC005548, AL117354, AC005317, AC006581, AL034417, AC004686, AC005527, AC003663, AL031277, AL109932, AC005011, 567859, U80459, AC002126, AL022476, 295152, AL109628, AC009247, AC005246, AL022329, AL049569, AC006536, AF030453, AC007536, AC004755, AL031280, AC005345, AC007868, AL035400, AC002369, AL031053, AC006667, AL031276, AL0099031, AC002994, AP000502, AC002326, AL118510, AP000117, 298036, AF134726, AC005088, AL135960, A131016, AC006486, U91323, AL035409, AL022322, AL049643, AC005486, AC002036, AC005042, AL022313, AC008115, AL133353, 298946,</p>
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HDQEF46	8889	957666	1 - 411	15 - 425	AL035420, AC007030, Z95114, AL023575, AC004835, U73169, AC007707, AL072316, and AC002096. AW015127, AA767375, AA282147, AL1431780, AL120806, AL581323, AL291483, AL050841, AA968963, AL949457, AL096633, AL343775, AL766201, AA130608, AL359445, AL278918, AL445485, AA629098, AA262437, N72677, N21390, H96796, AW118308, AL770085, AL797434, N72690, N50924, W81605, AL371344, AA287019, W31464, R12476, AA694478, T90900, AW273672, H72374, D21015, AW059628, and AC003999.
HDQEF93	8890	791753	1 - 464	15 - 478	AL820722, AL820696, AL732275, AL732300, AL478997, R50557, R48764, and R48866.
HDQDX89	8891	786323	1 - 977	15 - 991	N41950, and N33234.
HDQDT10	8892	963482	1 - 593	15 - 607	AL078356, and AA889808.
HDQDG73	8893	761957	1 - 586	15 - 600	W05421.
HDQDC74	8894	764985	1 - 323	15 - 337	AL866951, AL339309, AL147802, AL126514, AL275133, AW138502, AA738256, AA732499, AL016178, AA157007, AL203233, and ALJ06266.
HDPY008	8895	958454	1 - 520	15 - 534	AW002414, AA587218, AL337851, AW341392, AA016317, AW043859, AW148813, AL968429, AL283860, and AA595438.
HDPXZ28	8896	686188	1 - 670	15 - 684	AL570931, AL186481, and AL796475.
HDPXW88	8897	631353	1 - 344	15 - 358	AA259064, AA657952, AL143075, AA594872, AL087206, AL149739, AL244822, AA725667, AA056110, AL093167, AL050824, AW024987, AL693689, AL200955, AA454906, AA400067, AA649907, AA436620, AL141148, N31844, AA132154, AA419249, AA402818, AA573258, AL074184, T61071, AA994420, AL339724, AL094655, D80744, AL160520, AA210767, AL1885410, AA652366, H19641, AL365036, AL884689, AA733140, AL621277, D80807, AA018419, AA631598, H41099, AA626841, AA579798, AA861445, AL150344, W58172, AA812861, AA041404, H20476, AL339583, AA954727, AA324170, AL372711, AL817408, AA948293, AA507208, D80745, AA400850, AA320028, AA534640, AA534821, N72499, AL380715, AA779645, AA830821, AW023338, AW022102, N67350, AL334895, AL560683, AW020693, AL312210, AW269097, AL336513, AL348895, AL336495, AA572758, AL310940, AW104056, AL310930, AL888621, AL037454, AL048644, H41759, AA572758, AL310940, AW104056, AL406063, AL288285, AL538764, N22276, AA420722, AW162189, AW020095, AW021717, AL538885, AL040586, AL048323, AW022682, AL559752, AL048340, AW071417, AL074422, AL348854, AL567582, AA291456, AL036832, AL039086, AL038564, AL690536, AL307557, AL336633, AL554343, AL345567, AW058223, AL312353, AL887775, AW020719, AA421957, AW071362, AL036274, AW084056, AL349256, AL344935, AL32152, AL020740, AL310575, AW268072, AL353363, AW403717, AW075084, AL340627, AL310925, AL538850, AL312399, AL349937, AL045620, AL304884, AL307543, AL540533, AL348897, AL345251, AW071412, AL345143, AL689420, AL307708, AL345666, AL312325, AW071395, AL648567, AL340659, AW071377, AL311159, AL340511, AW059828, AL340644, AL345397, AL036705, AL334930, AL309443, AL307320, AL345688, AL349186, AW084097, AL340664, AL310592, AL307542,

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HDPX003	8898	973602	1 - 624		AL049283, Y11587, AF118070, U67958, AL110196, Y10936, AF113699, AF106827, I17767, and AL117585
HDPXN01	8899	915919	1 - 461	15 - 638	H52273, AW368490, and T64894.
				15 - 475	AI651231, AW196757, AA101088, W94251, AI627422, W94274, AA012880, AI093809, AI867562, H06521, and H20526.
HDPXL71	8900	760140	1 - 263	15 - 277	H84068, and AA054207.
HDPXD40	8901	974493	1 - 554	15 - 568	AA651853.
HDPXD08	8902	958826	1 - 460	15 - 474	
HDPXC56	8903	974490	1 - 550	15 - 564	
HDPX875	8904	786320	1 - 451	15 - 465	
HDPWX53	8905	727595	1 - 428	15 - 442	T97918, and N77405.
HDPWT92	8906	791223	1 - 650	15 - 664	N76855.
HDPWR03	8907	923608	1 - 483	15 - 497	AA838727, AI816786, AI935020, AI801846, AI928063, AR014046, AR014055, and AR014063.
HDPWN56	8908	733129	1 - 412	15 - 426	AI761763, and R62488.
HDPWK75	8909	793234	1 - 448	15 - 462	AL037151, AW160378, AW163731, R62281, AL037901, T06249, AA211768, AI381026, AA206573, T30286, AW162002, AW390277, T30284, AA075932, AF061940, AF061939, AF061938, AF061941, and AI132258.
HDPWH75	8910	956201	1 - 479	15 - 493	H79853, W03687, AA465485, AA455724, H83356, W87865, H59791, I16967, T79085, R09412, and R83716.
HDPVC01	8911	915816	1 - 594	15 - 608	AI038628.
HDPVW82	8912	921279	1 - 299	15 - 313	R40075, R51621, AI114535, R46566, R37155, AI692408, AA970417, AA419023, H99298, AI669153, AA907293, AA811138, AA788986, AI825009, AI579905, H17653, R93326, I16181, AW070719, AA130206, AA745834, AI38136, AA365593, AA365604, R88755, AI824699, AI914066, AA448251, Z39123, R34299, AI808827, AP000029, AF039907, AP000044, and AP000112.
HDPUV65	8913	747646	1 - 831	15 - 845	R56626, AA928427, AW005035, AW364625, R68718, AW364618, AI318289, and AI494313.
HDPUV11	8914	966558	1 - 632	15 - 646	H08311, H29675, N91977, R11982, T80994, AA773218, AA569178, AL022345, AL049760, AC005011, AC008124, AC007857, AI8080243, AC005295, U91323, AC005086, AC005067, AC002565, AI035458, AC011504, AC005800, AI031685, and AF047825.
HDPUR51	8915	914406	1 - 250	15 - 264	AW069477, AH71968, AW249664, AW245944, AW720616, AI825610, AA931555, AA988285, AI076790, AW009565, AI217146, AI217151, AI934470, AI161265, AW194915, AI675557, AA883665, AA149768, AW027197, AA011403, AA975558, AI219393, AW173189, AA436569, AI150988, AI421887, AA669290, R45925, AI784385, Z21905, T69866, AW138299, AI560662, and AF093415.
HDPUN39	8916	957580	1 - 1806	15 - 1820	AA703945, AI378007, AI887376, AI819938, AW118802, AW117265, AI022329, AA858163, AA836225, AA815054, N32787, AI304385, AI859862, AI810059, AA948491, AI93415,

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HDPUJ44	8917	715971	1 - 707	15 - 721	AA203502, R93355, AI022629, AI627435, T85234, and T97519.
HDPT065	8918	747206	1 - 554	15 - 568	AA136168.
HDPTL59	8919	739068	1 - 374	15 - 388	T68902, and T68823.
HDPTF43	8920	715038	1 - 608	15 - 622	T57728.
HDPTD58	8921	735750	1 - 550	15 - 564	H71387.
HDPSW93	8922	973098	1 - 486	15 - 500	AW162288, F13749, AI751162, AI696793, AW162489, AW270270, AI431434, AI537538, AI148277, AI859946, AI287651, AA601680, AA179706, AI268812, AA747375, C15897, AI266576, AA644320, AA708678, AA610491, AI500552, AI151261, AI120687, AI111870, AA127353, AW083934, AI305766, AH69796, AW062724, AI453233, AA284184, AI446638, AA604514, AW270258, T47739, AA657835, AI355246, AI291317, AA077776, AI135761, AI279165, AW194267, AI367361, H79308, AA578853, AI176605, AI243789, AW157005, T06828, AW193493, AA302980, AW192065, AA92126, AI445474, AI192631, AA814510, AI133643, AW28510, AI048616, AA226584, AI382614, T40612, AI696962, AW021583, AA297496, AA720732, AW069227, C14121, AA121919, AA484892, AI360514, AI568683, AI291124, AA071393, AI053786, AI358812, AI031670, AC002314, AC007055, AC005829, AP000248, Z98051, AF196969, AF129756, AP000504, U96629, AI080243, AC004453, AF114156, AC005484, AC004231, AP000556, AC002492, AC009946, Z99716, AC007546, AC002301, AC002544, AC007225, AI078477, AC005332, AI035072, AC006057, AC005688, U73634, AI080242, AC004655, Z93241, AC008372, AC005527, AF111168, AC005624, AI049795, AI096678, AC005940, U91326, AC007688, AC007376, AC004526, AP000505, AC004475, AC007536, AF134726, AC003041, AI121658, AC002400, Z98941, AC002300, AC006064, AI022237, AC004253, AC005377, AI003147, AI035684, AC005529, AC004970, U47924, AC006312, AC004913, AC002351, AC007444, AP000160, AC018633, AC004874, AC005800, AC005755, AC004448, AF196779, AF047825, AC000026, AI031782, AC005696, Z82243, AI049636, AF053356, AI050308, AC006965, AC003037, AC009509, AC004125, AC005209, AC005821, AC005284, AI049766, AC006511, AC002059, AP000692, AC007298, AC007050, AC000025, Z85986, Z95116, AC004531, Z98744, AI078476, AI022329, AC006449, U62293, AC002470, AC005971, AC016831, Z82206, AC005740, AC004890, AC005237, AC002369, AC004617, AB000882, AI049776, AC003101, AC005288, AC004832, AC006441, AC004400, AC004381, AC012627, AC006468, AI031447, AI031283, AC006111, AC009516, U62317, AI022336, AC002045, Z98704, AC005182, AC004841, AC002996, AC007207, AI022476, AC007367, AC004796, AFT04455, AP000359, AP000117, AC006277, AP000087,

HDPSW82	8923	779614	1 - 664	15 - 678	AC003695, AC004955, AC002310, AC005071, AC005180, AC005796, AC004820, AC007934, AC004263, AL096701, AC005274, AP000502, AC005694, AL031295, Z95113, AL049869, AC004887, AL021808, AL022165, AC004983, AP000552, AL022311, AC005519, AL034423, AC005225, AL035683, AC007182, Z82244, AC005488, AP000511, AL031311, Z83844, AC004783, AL133246, AC005562, AC005839, AC007999, AC006130, AC002123, AC005954, AL121655, AC004996, AL132712, AC002312, AC002044, L44140, AC004765, Z84466, AP064861, AL033527, AP000347, AL035079, AC004000, AC005914, AC008928, AP000512, AL035587, AC007066, AC003982, AP000050, AC005082, Z75887, AC006450, AL121603, AC004686, AC007283, AC005722, AL022320, Z97055, AC005057, AC005702, AC005690, AP000537, AL049761, AC005358, AL049589, AL049759, AC004859, AC005632, AC002394, AC007262, Z82198, AC004814, AC003030, AL049780, AC005531, AC007684, AC004962, AC007363, AL031407, AL121694, AC005609, AL009181, AC005815, Z97630, AC006946, AC004106, AC006211, AC000353, AP000346, AL049832, U91328, AC004408, AC005015, AC003035, AC004816, AC007537, and Z97196.
HDPSL71	8924	779614	1 - 416	15 - 678	W90767, AL125397, AL125743, AA912111, and W90700.
HDPSK64	8925	746370	1 - 636	15 - 430	AL201084, AL1432483, AL469036, AL933748, AL927480, AL653945, AA514329, AL952978, AL282809, AW451209, AW025649, and AW242494.
HDPSK53	8926	727586	1 - 462	15 - 650	AA001236, and AL137442.
HDPSJ13	8927	656729	1 - 401	15 - 476	AA078886, AA078885, AL041732, and AB014514.
HDPSB10	8928	961309	1 - 432	15 - 415	H60868.
HDPSA86	8929	785293	1 - 440	15 - 446	AL290094.
HDPRW01	8930	915993	1 - 511	15 - 434	AA495949, AL963348, R37246, AL394099, ZD0416, N62063, H06877, AA425013, AL625778, AA83232, AW183998, CO0885, AW418807, T63598, and AA488249.
HDPRS89	8931	887682	1 - 464	15 - 525	AL090161, AW369155, AW369104, AW377799, AW369248, and AL078593.
HDPRR24	8932	914667	1 - 398	15 - 478	AW246183, W19148, W105250, H81510, W23551, AL199034, H30332, R58152, AA293565, H51005, AA007325, R70532, W25288, AA378659, AA431053, N35709, AA303188, AA121246, AA354142, AA668370, AF086837, and AF086838.
HDPRK07	8933	948672	1 - 380	15 - 412	AA765539, AA927315, and AL031133.
HDPRJ04	8934	909040	1 - 597	15 - 394	AL135709, AA447107, and AL096677.
HDPRE41	8935	712124	1 - 505	15 - 611	R76879, and R08903.
HDPRAS1	8936	725103	1 - 317	15 - 519	
HDPPQV82	8937	779421	1 - 473	15 - 331	
HDPRQ07	8938	952337	1 - 618	15 - 487	H80898, AL037040, Z93023, AC004752, AC004216, AL117339, AL096702, AC004682, AC002073, AL031427, AL022318, and AC005363.
HDPIQ68	8939	955006	1 - 632	15 - 632	AA909187.
			1 - 646	15 - 646	AL052000, AW043554, AL589322, AL129714, AL921817, AL940690, AA854748, and AA860747.

HDPQH06	8940	934616	1 - 431	15 - 445	AI652814, and AL122123.
HDPQF03	8941	923120	1 - 810	15 - 824	AI582755, R26237, R86322, AL042965, AL134518, AL119319, AL119335, AL039912, U46351, U46349, AB021861, AF100318, A81671, AB026436, and AR043113.
HDPQC63	8942	744461	1 - 427	15 - 441	H79008.
HDPQA64	8943	872237	1 - 347	15 - 361	AA135852.
HDPPT29	8944	690497	1 - 381	15 - 395	AA430072, AI433439, AA534674, AC004190, AP000516, and AB014087.
HDPPIB17	8945	662917	1 - 374	15 - 388	N28339, and Z75746.
HDPFOX3	8946	923856	1 - 579	15 - 593	AI050692, and AW062324.
HDPOT178	8947	773487	1 - 905	15 - 919	AI912571, AI911514, AI679788, N24178, AI313135, N78597, AW083974, Z30045, H92801, AI361253, D52266, H92790, AAG39165, D61220, AI341193, AA56721, T23468, D08865, AI57528, D59892, AT02867, AB28304, and W07344.
HDPPO03	8948	923843	1 - 579	15 - 593	N49161, and U61375.
HDPPOC2	8949	919597	1 - 618	15 - 632	AI122267, AA995018, AI677847, H06642, RI6329, AJ919166, AJ611049, and AW235290.
HDPN173	8950	764407	1 - 593	15 - 607	T56742, AA551532, AA169830, AL022336, AC006014, AC005488, AP000356, AC004765, AC004841, AC004770, AC004228, AL031670, AC005697, AL031280, AL109865, AL031311, AC009509, AC005837, AL021878, AC004882, AC005484, AC005529, AC004974, and AC002407.
HDPND09	8951	607575	1 - 555	15 - 569	AA387005, P29968, AA325753, AI783911, AW261871, AI954464, AI476460, AA513484, AA584756, U78027, AL121603, AL035422, AC002350, Z95329, AC005046, AC006511, AL008582, AC006468, AL031431, AF117829, AP000111, AP000043, AL035587, AC005800, AC002126, AC004647, Z84480, AF088219, AL049780, AC007308, AC005793, AC009247, AL035415, AC007536, AL049776, AF001549, AL049766, AC020663, AC007725, AC002477, AL031774, AF030876, AC004890, AC005480, AF196779, AC002312, AC007676, AL117339, AC007055, AF001552, AC004525, AC005821, AL035681, AP000359, AC003070, AP000509, AC007388, U91326, AC007151, AC005899, AL023213, AL034423, AL050318, L78810, AC005399, U91323, AF207550, AL024508, Z93241, Z98742, AL121653, AL031681, AL135744, AC009181, AL133245, AC005288, AF196971, AL132712, U52112, AC009516, AC005284, AL024498, AL049760, AL080243, AC005690, and AC005037.
HDPNC22	8952	674539	1 - 881	15 - 895	W90578, W90539, T86410, AI709138, AA890473, T79032, T86498, T85302, T79033, AI784127, T85514, and AB033024.
HDPNMV35	8953	706647	1 - 386	15 - 400	W20066.
HDPMR81	8954	493958	1 - 452	15 - 466	AI700071, and AI651878.
HDPMH51	8955	725029	1 - 762	15 - 776	H75594, H84078, H86134, and H84972.
HDPMG46	8956	934144	1 - 346	15 - 360	AI073504, AA931246, AI420858, AA156986, AA806750, AI020256, AI796966, AI440318, AI299156, AI659218, AI147939, AI499692, AI088683, AI048596, AI337583, AI363844, N22539, AI470606, C06326, AW148877, AA253327, AI984272, AI052500, AI984788, HI4210, AA284014,

				AA281855, AI537677, AI579365, AI923989, AI537273, AI580927, AI119791, AI433157, AI045500, AI284517, AI364788, AI620284, AI539771, AI567993, AI801375, AI500523, AI434223, AI500706, AI500662, AI515138, AI909672, AI500659, AI445237, AI634256, AI269862, AI491776, AI083804, AI043981, AI633493, AI284513, AI888118, AI433037, AI872300, AI582932, AI909696, AI041150, AI088899, AI636719, AI433976, AI815232, AI121328, AI919345, AI889189, AI521560, AI610402, AI511136, AI064830, AI537617, AI494201, AI7129106, AI889148, AI284509, AI888661, AI064830, AI040243, AI285826, AI866457, AI087445, AI366549, AI436429, AI554821, AI041862, AI805769, AI633306, AI889168, AI589993, AI499920, AI119457, AI866573, AI805638, AI889133, AI499512, AI610362, AI005520, AI122110, and AI133080.
HDPLV29	8957	849526	1 - 567	15 - 581
HDPLU84	8958	782061	1 - 597	15 - 611
HDPLT62	8959	973945	1 - 796	15 - 810
				AA236014, AA236084, AA330056, AF149770, and AC004801.
				R06132, and AC005746.
				AW392670, U46341, AI119497, AI119443, AI119483, AW372827, AW384394, AW363220, AI119319, AI119457, AI119324, AI119396, AI119363, AI119496, Z99396, AI119484, AI119341, AI119391, AI119355, U46350, U46347, U46351, U46349, AI119444, U46346, AI119335, AI134920, AI134533, AI119439, AI119522, AI134518, AI134902, AI042975, AI134526, AI134538, AI119399, AI042965, AI037205, U46345, AI042970, AI119418, AI042614, AI134531, AI043029, AI042450, AI042995, AI043011, AI042544, AI142139, AI042542, AI043019, AI042984, AI042551, AI043003, AI119464, AI119488, AB026436, AR054110, A81671, AR060234, AR066494, and AR069079.
HDPLK78	8960	773469	1 - 404	15 - 418
HDPLK403	8961	923841	1 - 473	15 - 487
				AI434789, AW271602, AI813305, N26090, N67808, AI093649, W03392, N36730, AW394104, and AI263776.
HDPLX07	8962	952966	1 - 562	15 - 576
HDPLP44	8963	716466	1 - 498	15 - 512
				AI085674, AA770333, and AI695338.
				AI770178, AI627506, AI916830, AW236927, AW299782, AI623168, AI347533, AA969417, AW002419, AI763247, AI299571, AI927189, AI136045, AI962542, AA428643, AW207242, AA778307, AI266504, AI334622, AI308144, AI824178, AI675224, AA931817, Z60819, and Z55542.
HDPLK23	8964	488326	1 - 342	15 - 356
HDPLB19	8965	887886	1 - 279	15 - 293
HDPLA07	8966	953001	1 - 241	15 - 255
HDPLW95	8967	933240	1 - 814	15 - 828
HDPLV34	8968	703959	1 - 477	15 - 491
HDPLQ24	8969	771039	1 - 482	15 - 496
HDPLP06	8970	935198	1 - 570	15 - 584
HDPLT73	8971	764344	1 - 328	15 - 342
				W52110, AB020679, and AF067777.
				AA021174.
				AI217942, AA885223, AA9090021, AA705902, AA306479, H91973, H89928, and AI135175.
				AI12352, AI343988, H12300, R71296, and AC007283.
				H08480, AA580484, AA226996, AA406259, AA402365, and AI022334.
				H70412.

HDPL01	8972	916221	1 - 330	15 - 344	AA515728, AW328331, AF733856, AW069227, AA714110, AL634187, AL133083, AA630854, AA904211, AT754170, AT1708005, AL1866971, AW069412, AA668587, AL040966, AL216990, AT791720, AT791408, AA439910, AA629731, AL049848, AL431513, AL124583, F24745, AA676592, AL89579, AL421257, AT712287, AT714011, AL627185, AA658918, AL187148, AL887235, AA614163, AA458452, AL066646, AW089625, AW083934, T74524, AA595499, AW265279, AA303298, AA483606, D44672, AA570740, AA513551, AL12418684, AA513851, AL049643, AA654038, AL277783, AL049630, AL890297, AW338376, AA601230, AA568204, AL171400, AL912401, AL1828555, AL733523, AL002977, AW338376, AA601230, AA568204, AL536834, W02749, AL633386, AW104163, AL905408, AL863569, AP00030, AA005696, AL031664, Z84469, AC004066, AC004985, AL034344, AL109627, AL120163, AC007298, AC006050, Z68322, AP00252, AC005031, AP000044, AP001152, AC000075, AC003007, AC004000, AL035079, AP000212, AP000134, AC007277, AF053356, U80017, AP000031, AC005632, AL133448, AC004605, Z98200, Z81364, AL035086, AF109907, AL133246, AL034423, AL121655, AC002314, AC006208, AC004893, AC004883, AC005005, AL031848, AC005409, AL096701, AL133163, AL109628, AC005232, AC005228, AF134726, AC007934, AC001228, Z97055, L78810, AC005664, AL049650, AP001053, AC006079, AL031589, AC005527, U47024, AC005701, AC005606, AL034429, AC005206, AC006162, AC003042, AC005602, AC004698, AC002364, AC006547, AC006080, AC006449, AC005529, AF191071, AC005722, Z98048, AC005082, AL021997, AP000116, AL050307, AP003147, AC004033, AL031673, AP000008, AC005667, AC003043, AC005484, AF196972, Z97632, AL008730, AF129756, AP000248, Z83380, AP000065, AC004796, AC006088, AL024507, AC005412, AL080250, AC002476, AC002553, AC005837, AC005500, AC004821, AC005971, AC007226, Z84474, AC006441, AP000326, AC004882, AC004841, AC005933, AP000054, AP000169, AP000122, AC005726, AC005822, AC005071, AC005911, AP000211, AP000133, AC004966, AC010205, AC004884, AC005800, AC003982, AC004552, AC002120, AL008582, AC005618, AL031846, Z98950, AC000115, AC005037, AL049540, AC007227, AC007540, AP005557, AP000049, Z83383, AP000501, AP000503, AC002477, AC009247, AC006084, AP000311, AF207550, AL035457, AL139054, AL035690, AC005331, AC007688, AL035659, AC005695, AC002470, AP000365, AC004895, AC004967, AL022336, U91327, AC002350, Z93017, AD000092, AC005003, AL049776, AP000299, Z93930, AP000103, AC006057, AC002312, AC004962, AL031283, AL031311, AC006487, AC006381, AL033540, AL031276, AC005057, AF111169, AL021453, AC006130, AC007637, AL133355, L78833, AL031778, AC004019, AL2336701, AP000692, AC005089, AC005531, AL096766, Z98051, AC008040, AC004663, AC002551, AL031864, AC002306, AC004752, AC005779, AC002563, AL049734, AC005740, AP000045, AP000113, AC005015, Z98044, AC007057, AL049872, AC003108, AL117338, AC004150, AC005900, AC007160, Z83384, AL0066512, AC005959, AC005944, AP000688, AC006360, AL251973, AL050318, AP000504, AL121769, AL117258, AL096791,
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HDPIF78	8973	881960	1 - 347	15 - 361	AC008115, AF045555, AL034402, AF001548, Z95113, AL049856, AC007899, AC007376, AL034379, AC004851, AL035458, AL049694, AC005231, AC006511, Z82206, and AF001549.
HDPIF66	8974	750575	1 - 431	15 - 445	
HDPIF54	8975	729441	1 - 556	15 - 570	R73297, AL287533, AL279683, U75370, and AC004449.
HDPIF88	8976	415993	1 - 409	15 - 423	H10868, and AL031681.
HDPIF53	8977	728058	1 - 416	15 - 430	AA513893, AW410354, AW148507, AW191886, AA679532, AL099222, AA320279, AL168661, AA954641, AA610219, AL627917, AW027660, AA476495, AF000217, AC002422, AP000339, AL133321, AL078603, AL035090, AC005593, AL035691, AL024498, AC008040, AC007688, AC005587, AC005247, AC005035, AL133445, Z49918, AC003991, AC005599, AC007676, AL049767, AL031737, AP000355, AC007376, AC005235, AC007899, AC002449, AC006947, AC006432, U95742, AL033381, AC007216, AP000501, AC007226, AL035413, AL022067, AP000080, AC005094, AC007685, AC004910, AL022727, AC005228, AC005519, AL008627, AP069291, AL117354, AC007695, AL109984, AC006529, AL110502, AC006238, Z85986, AC007270, AC004582, AL021877, AL117356, AC005081, AC006271, AP000038, Z82217, AC000552, AC005015, AC005156, AC004019, AC004605, AF111169, AC007253, AC004638, Z92844, AC002536, AL008732, AL023803, AL050399, AL078587, AC004967, AC004059, AL031230, AL031120, AL008631, AL049779, AC000134, AL079342, AC002542, AC005022, AC006441, AL022320, AC004999, AF111168, AC002511, AL109963, AC003101, AL049757, and AC007182.
HDPIA21	8978	827350	1 - 459	15 - 473	AC002400, AF134726, AP0000503, AP000049, AP000311, AC009784, AC005856, AC004905, and AC007546.
HDPIF37	8979	706622	1 - 313	15 - 327	
HDPIA89	8980	786078	1 - 495	15 - 509	AA056286, AA054104, R88858, H83463, H86714, H84085, AA011139, AW160888, AL570404, P05284, R69197, and AA015680.
HDPIA40	8981	711126	1 - 376	15 - 390	AA010368.
HDPIA37	8982	812336	1 - 494	15 - 508	AB002378.
HDPIA34	8983	704036	1 - 500	15 - 514	H63370, and AC005495.
HDPGX15	8984	660089	1 - 448	15 - 462	AC008282.
HDPGX10	8985	964519	1 - 714	15 - 728	AA281456.
HDPGX03	8986	924010	1 - 396	15 - 410	
HDPG196	8987	973363	1 - 453	15 - 467	AL021938.
HDPGS93	8988	792256	1 - 454	15 - 468	AF107885.
HDPGS45	8989	921381	1 - 355	15 - 369	T85104, T80174, N73918, W02957, AA910341, and AC005562.
HDPGS43	8990	715232	1 - 453	15 - 467	AL038997, AL481826, AL457736, N57242, AL087313, AA648507, N41553, AL655523, AL827737, and AC000119.

HDPGS16	8991	909833	1 - 447	15 - 461	AA774560, AA530983, N42742, AA825514, AJ245709, AF124141, AF135794, AL117525, AF124142, and D49836.
HDPGS01	8992	916352	1 - 454	15 - 468	
HDPR44	8993	468389	1 - 213	15 - 227	
HDPGN15	8994	394693	1 - 452	15 - 466	
HDPGN13	8995	416046	1 - 442	15 - 456	AA502207, AI050076, AA877992, R82650, AI368732, AL120141, W63553, AA211734, AW023111, AA938390, AA630122, AA493789, AA482844, AI160786, AA569059, AA737235, W01323, AA482776, AI024508, AC003553, AC005790, AI003147, AC004815, AI034549, AI137705, AC007096, AC000159, AI012008, AP000504, AF129756, AC006208, AF196969, AC004874, AI022314, AI030996, AI035413, AF001548, AC007541, AI109753, AC004227, AC005531, AC005529, M55987, AC002559, AI035405, Z81010, AP000362, X55448, AC007748, AI032822, AC002375, AC000029, AC007227, L41410, AC006538, AC001086, Z98885, AC002094, AC006236, AI133312, AC005535, AC018767, AC007637, Z93017, AC003071, AI096701, AC007546, AF073485, AP000236, Z68324, AP000098, AI031775, AI021393, U80017, AI132987, AI035089, AC010183, Z97353, AC006430, AF088219, AC005088, AC005156, AC006211, AC005484, AC005189, AI034417, and AC006344.
HDPGN13	8995	416046	1 - 442	15 - 456	AA386451, AA515742, AI298079, F34468, AA657910, AA640252, AA831997, AI499954, AI800345, AA338635, H16875, F26713, AA161305, AA506952, AW029269, T08205, AA229159, AW242279, AI627888, AW071109, AI134167, AI041019, AI041018, AA550989, H73306, AW392414, AI045476, AW408596, AA948670, AW341955, T41134, AA658890, F37201, AI471455, AW439703, AI687343, AI111870, F34605, AI680547, AW162227, AA728925, AW377926, AI135363, AA657392, AI054326, AA056206, AA836097, AA678950, AA424466, AW407632, U51704, AA584655, AA315052, AI801824, AI147511, AA311432, AA429481, AA554257, AI035685, AC007204, AC005206, AC004686, AC005667, AC007685, AC005366, AI109842, AC004961, AC006578, AB020859, AC005866, AB001523, AC007021, AC002314, AI034423, AC006084, Z49236, AJ251973, AF001549, AC002115, AB026899, AC005899, AC003691, AC008122, AC000402, AC002322, U62631, AC004491, AC004234, AI109984, AC005183, Z98752, AC006262, AI021393, AC006120, AI096818, AF030453, AI008707, AC004820, AC005091, AP000500, AC004963, AP000501, AI031585, AI139054, AC002470, U53930, AC002544, U53583, AI050321, AC004743, Z93023, AI009181, AF053356, AC004560, Z98256, AC004692, AC002543, AC007934, AI031686, AC005189, AC006540, AI078602, AC006071, AI096701, AC007199, Z93930, AP000512, Z69921, S79836, U11297, U08438, AP000665, AC007040, AC006001, U97187, AI049653, AC004638, AI031904, AF111170, AC007358, AC007066, AC004851, AC011504, AC005666, AC008015, AC005519, AI137716, AB014079, AC007381, AC006139, AP000514, AI049814, AC007537, AC006270, AI031284, AC003037, AI022163, AC006312, AC005695, AC005796, AC005089, AC007193, Z68323, AC004876, AF196971, AC004466, AI035652, AI246003, AC003992, L31848, AC004752, AI096767, AC004741, AC006367, AC011456, AC007057, AI031315, AC005102, AI022722,

					AC006101, AL096774, AL035458, AC007308, AB000462, AL022326, Z68279, AB015355, AP001063, AC010186, AP000353, Z83838, AC006006, AC004593, AC006549, AC005683, AC006077, AL080317, AL021306, AF016898, AL022238, AC000081, AC004645, AB020865, AC004991, AC005884, AL022098, AC007425, AC007538, AC004216, AC007182, AC006111, AL032383, Z99128, AC005837, AC003043, AL031984, AL049569, AL121756, AC006947, AL133163, AL022476, AF111168, AC005049, AL118497, AC000097, AL021938, AC005562, U91323, AL110200, AC006547, AC004644, AC000194, AC003963, AP000047, AL031662, AP000313, AP000194, AC005221, AL022327, AL080316, AC004414, AC005180, Z99943, AC004126, AC005242, AL022328, AF187967, AL031728, J00089, AL049553, AL035089, AL031428, AL132826, AC005520, AL022334, Z95118, AC002094, AC005746, AL031431, AL031255, and AF118808.
HDPGN11	8996	966923	1 - 388	15 - 402	AA767082, AL554821, A064787, ARI15232, AA814782, A312428, AL580927, AL036802, AA504514, AW071380, AL099512, A8001544, AW131282, AL520862, AW089689, A5138878, AP009661, A1634737, AA715307, AA613907, AL033656, AL045421, AW080556, AL499191, AL923989, AL402623, AL038779, AL582932, AA641818, AA761557, AL46248, AL923509, AL886415, AL889189, AL281773, AW151136, AW243741, A1475394, AL635492, AL866465, AL597918, AL539771, AL121270, AL364788, AL537677, AL064830, AL500659, AA809974, AL801325, AL500523, AL284517, AL500706, AL491776, AL454237, AW151138, AL521560, AL500662, AL284509, AL889168, AL866573, AL633493, AL434256, AL624543, AL888661, AL284513, AL888118, AL371251, AL436429, AL859991, AL872423, AL440252, AL909672, AW087445, AL036901, AL045774, AL121328, AL678989, AL371228, T79374, AL037422, AL269862, AL433037, AL039730, AL355849, AW117882, AL640873, AL343030, AL034019, AW128983, AL194201, AL110402, AL1866469, AL345608, AW081133, AW172723, AL680003, AL805769, AL906328, AL432656, AW162194, AL889147, AL345587, AL866786, AL610557, AL631325, AW059828, AL887499, AL045500, AW083804, AL282655, AL340511, AL119791, AL007392, AL022315, Z49258, Z82206, AL033521, AC005291, AL022723, AC006112, Z99495, AC009233, AC004383, AL021391, AL035407, AC018767, AP000355, AC005156, AC007298, AP000020, AL031984, AC005048, AC004837, AC005520, AL022147, AL122021, AC002416, AL034417, and AC005224.
HDPGI49	8997	722903	1 - 296	15 - 310	N59681
HDPGI75	8998	766618	1 - 464	15 - 478	AA644090, AA081825, Z81365, AL035683, and AL020995.
HDPGI74	8999	765524	1 - 453	15 - 467	AL033397, AL031685, AL050318, AC005072, Z99127, U52112, AC0066511, AC002430, AC004491, AC007384, AL034400, AL109628, L44140, AC008372, AC011362, AC004834, AC004301, AC002565, AL080243, AC006238, AF006752, AC006453, AC005740, AC005778, AC004825, U91323, AC005015, AC005529, AC005089, AL020997, AC004953, AP000697, AC003003, Z95115, AC007386, AC005562, AL049758, AC005756, AC005206, AC004887, AC005952, and AC005667.

HDPGH73	9000	764397	1 - 104	15 - 118	
HDPGG01	9001	916389	1 - 304	15 - 318	
HDPGD28	9002	879489	1 - 433	15 - 447	AA111917, AA032747, AF769719, T79745, and AC004751
HDPFE70	9003	709684	1 - 761	15 - 775	AA525394, AA484596, AA484372, AL042753, AL042377, AL475660, AA464969, AW024544, AL045360, AA603359, AA808153, AL005553, AL138455, AL134524, AA974503, AL043095, AW117882, AL040319, AA1177033, W95924, AL40426, AL046110, AA947997, AL060846, AH433157, AL042891, AA760655, AL863014, AC005081, AC007055, AC004491, AF196779, AC005015, AC006530, AC006285, AC006064, AL121653, AC005971, AC006480, AL109627, AF205588, AC006071, AL022316, AC006211, U47924, AF0060692, AC005696, AL096791, AC004686, AL008719, Z83844, AC005225, U91326, AF0060692, AC005696, AL096791, AC006014, AL022238, Z82206, AC005519, AC009516, AL121603, AP000357, AL022723, AL096701, AC005207, AC007664, AC004797, AC005399, AC007686, AC002544, AP000501, AL049569, AL009181, AC016831, AC009247, AC006312, AL022721, AC005800, AC005488, AL031311, AL049757, AL035587, AC005082, AC004841, AC004883, AL080243, AC005736, AC016830, AC002073, AC008372, AF001548, AL049694, AC005529, AL050318, AC006241, AD000092, AC004966, Z93930, AL049776, AL050348, AC004213, AC005618, AL031680, AC007051, Z85986, AC006039, Z77249, AF091512, Z99716, AL136295, AC005089, AC003982, AC002477, Z98051, AC002430, AL035086, AP001053, AC006441, AL096776, AL022336, AF109907, AC004257, AP000088, AF001549, AC002558, AC004878, AC004605, AC004882, AC002347, Z97056, AC007384, AC005962, AC004263, AC002039, AF093117, AC005071, AC004150, AC007277, AC005102, U95090, AC004813, U95739, AL135744, AC005072, AC004987, AF042090, AL132712, AP000513, AC002425, AC005755, AL034548, AL021707, AL078463, AC004832, AB004907, AL049872, AL022165, AC005874, AF134471, AL021726, AL034555, AC004383, AC006277, AC007676, Z84466, AC005180, AL049795, AL022476, AC002350, AL008582, AC004814, AL031229, AL049759, Z98200, AL034420, AC006040, AC003070, AC005409, AC005881, AC007458, AF047825, AC006953, AC005778, AF129756, AC004921, AC006449, AC006077, AF053336, AC002316, AF019413, U95742, AC008040, and AL133445.
HDPFW02	9004	919306	1 - 558	15 - 572	
HDPFS71	9005	486744	1 - 467	15 - 481	
HDPFS59	9006	486737	1 - 462	15 - 476	
HDPFP96	9007	796360	1 - 451	15 - 465	
HDPFP71	9008	760327	1 - 797	15 - 811	T39977, and AL050337.
HDPFP14	9009	486765	1 - 478	15 - 492	W72416, AA955016, and W76266.
HDPFN23	9010	486738	1 - 442	15 - 456	
HDPFM28	9011	486766	1 - 469	15 - 483	

HDPCF52	9012	486739	1 - 469	15 - 483	AC007281.
HDPCF58	9013	783957	1 - 352	15 - 366	W05340.
HDPCFD10	9014	964521	1 - 705	15 - 719	AA424163, and AI350948.
HDPCFB03	9015	956331	1 - 678	15 - 692	AI694127, AI299320, H70360, T98966, AA356015, AL045292, AA236204, AA131671, AW118104, W20295, H75919, N31893, R98291, AL117517, and AB023221.
HDPCDH08	9016	959303	1 - 344	15 - 358	AA082104, and AI134717.
HDPCDD12	9017	970592	1 - 964	15 - 978	AI939431, AW020534, AI347310, AI371784, AI423466, AW150254, AW015338, AI361447, AI419452, AI088725, AI371086, AI418456, AI361506, AI419176, AI363726, AW176344, AL120300, AI424173, AW016674, AI288889, AF097450, AF146793, AF011568, AB002332, and AF000998.
HDPCDC90	9018	590161	1 - 641	15 - 655	T52186, and Z97630.
HDPCV47	9019	775412	1 - 402	15 - 416	W38488, N27984, AA649285, AA661773, AA298770, AA306867, H81350, AA100476, AA310276, AA417302, AA314322, AI815642, AA045597, D82429, R89903, AA130829, R83064, AA382073, AA297193, AA100050, AA344066, AA311797, T85780, AA334159, AA314221, NS1146, AL122042, and AC007842.
HDPCPC89	9020	786075	1 - 384	15 - 398	AA494163, T52475, and AC004148.
HDPCPC64	9021	746527	1 - 320	15 - 334	AL02329, and AL023332.
HDPCPC48	9022	721620	1 - 406	15 - 420	
HDPCPC46	9023	719014	1 - 447	15 - 461	
HDPCPC43	9024	715227	1 - 432	15 - 446	AI751151, AA418897, AA195596, AA491307, T54037, AA339713, AI751325, W79862, NA1703, AA099015, H71376, AA307241, AA371799, AA485793, AA300777, AA299440, AA485195, N28794, AA313589, R85229, AA491479, H52010, AA471326, AA227051, H13340, AA4218541, AA216580, R72732, AA330733, AA227045, N56603, AA219518, W52126, AI336290, AA1213719, H30288, R94642, AI112482, J04794, AF036680, and AF112484.
HDPCP16	9025	416032	1 - 408	15 - 422	
HDPCO12	9026	852847	1 - 446	15 - 460	N23913, AI674840, AL079734, AI206841, AA502991, AA452887, AL119691, AA381247, AW023111, AL038842, AA644090, AI189682, AA832444, AI799569, AI889426, AA525764, AA769525, AI192440, AA503298, AI306149, AI627917, R34070, AA427470, H68343, AI962030, AA582554, AI066711, AA610642, AA837035, AA063008, AA608196, AI610468, AI421257, AA525331, AI610737, AA384862, AI791659, AW327624, AI267884, AA121777, AA832175, AA491767, AW245860, AI565126, AA405726, AC005632, AI031589, AI078472, AC006505, AP000967, AF196779, AF200465, AC000353, AC006952, AP000704, AC006312, AL049829, AC004859, AC007707, AC002091, AP000362, AB023048, AC004526, AC007666, AC002300, AC007283, AC003101, AC004491, AC005049, AC007774, AL031729, Z83822, AF139054, Z85996, AC005058, AL117355, AC002996, AL049569, AC002352, AC007011, AF030453, Z84480, AL133163, AP000510, AC002544, AC005412, Z83308, AC008033, AC005220,

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HDPN88	9027	416035	1 - 439	15 - 453
HDPN73	9028	764400	1 - 435	15 - 449
HDPN33	9029	416028	1 - 339	15 - 353
HDPN66	9030	852849	1 - 459	15 - 473
HDPN62	9031	454740	1 - 451	15 - 465
				D25538, Z49806, and U12919.
				AL1525779, AL048467, Z98468, AL132950, AL037961, AA467916, AL540982, AA523369, C17914, AA147138, C17592, AA503155, AA1177092, AA180879, AA641056, AA610797, AW270568, C18849, AA182403, AA469384, AA115399, AA468916, AA533146, AA147875, AA180941, AA13326, AL525589, AA248428, AA469455, AL557370, AL525553, AL557341, C17520, AA828615, AA181413, C17634, C16951, AL1880907, AA178872, AA548209, AL720611, AL038782, AL832713, AA579252, AA468090, AA134092, AA467874, AL720582, AA524630, AA195788, AL564503, C17424, AL888059, AA192670, AA652263, AA194546, AA523654, AA131426, AL557313, AL535678, AL749086, AL459469, AL187125, AA229365, AA737156, AA501707, AL557102, AA214681, AL879244, AL180873, AA112861, AA194379, AA194687, AA569555, AA182903, AA182943, AA533654, AA522594, AL525571, AA991485, AL749735,

HDPC145	9032	974424	1 - 369	15 - 383	A1557088, AA650350, AA478982, AA196841, AA579030, A1601133, AA424930, AA194273, A1749789, AA083296, A1079227, A1194499, AA229353, AA192574, A1601656, AA058230, AA192817, AA213905, AA180994, AL047719, AA192816, AA157661, A1888702, AA178896, AA579390, A1525178, AL048223, AA640922, A1525569, AA186485, AA554723, AA206277, AA132126, A1683500, A1721182, AA643083, A1859687, AA630148, AA575856, AA541754, AA186996, A1039890, A1336230, A1679256, A1860015, A1625480, AA149803, A1749577, A1880643, A1657683, A1720486, A1832827, AA226358, A1557278, A1656146, A1570248, AA130611, AA910188, A1799675, AA194505, A1819457, AA477388, AA745378, AA165490, A1859381, A1207550, A1718924, A1064923, AA664911, A1675978, A1742323, AA091934, AA738023, A1654020, AA143576, A1961292, AA156168, AA248319, AA512109, A1552664, AA079522, A1679832, A1683406, A1653843, AA176516, A1749856, A1805532, AA501537, AA483433, A1833274, C17077, A1880419, A069468, AA469166, A1539651, A1568209, A1022093, AA180137, A1635597, A1879300, AA148089, AA583943, A1281616, AA147081, A1735219, AA193156, A1028076, A1749870, A1949078, A1720480, AA091771, AA194500, AA197055, AA095954, AA804880, A1557381, A1984574, A1718780, A1859301, A1679202, AA640278, AA771997, A1636313, A1801302, A1628841, AA659528, A1620672, A1833271, AA079046, AA213947, AA904198, AA176518, A1025935, AA578703, AA575882, AA578171, A1766358, A1525644, AA532589, AA662051, AA642606, A1971524, AA774227, AA642865, A1880261, AA130827, AA179137, A1557043, AA133044, AA196992, AA653769, AA578373, AA829550, AA188331, AA650010, AA136007, AA131083, A1525661, AA081141, AA490051, A1795888, A1707528, AA196842, AA192743, A1833260, AA439447, A1811181, C17407, AA578629, M25171, I27366, A15759, U12691, U12694, U12690, U12695, X62996, D38112, V00662, J01415, X93334, AF134583, AF035429, U12702, U12695, U12696, U12706, M58009, D38116, U12697, U12705, AF004339, D38113, X93335, X55654, U12703, U12704, X97712, D38115, X97707, J02825, Z63194, AB019563, Z59071, Z57801, Z59274, Z55198, Z58044, Z59273, Z54385, Z64469, Z59073, Z56866, Z58022, Z54740, Z61931, Z61912, Z56698, Z64102, Z57991, Z55821, Z56806, Z57800, Z61907, Z54739, Z59906, Z55197, Z58021, and Z56697.
HDPC185	9033	973314	1 - 508	15 - 522	
HDPCG33	9034	495711	1 - 509	15 - 523	
HDPCB367	9035	878776	1 - 286	15 - 300	AA723077.
HDPCB075	9036	466645	1 - 416	15 - 430	H68565, and AF064553.
HDPCB64	9037	746537	1 - 368	15 - 382	RS1480.
HDPCB31	9038	852885	1 - 628	15 - 642	AA477369, A1914713, AA878492, AA678616, AA659832, AA714073, AA7078821, AA7390284, A1347665, T08386, AA644223, AA581498, A1472736, AA662989, AA440568, AA678932, N66927, AA081610, N67313, A1889995, AA126814, AA452325, W96277, AA005974, F02342, AA020873, A1619994, A1697425, T26476, F26072, AA657910, C14330, A1718462, A1683116,

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HDPBF15	9039	852880	1 - 392	15 - 406
HDPBE85	9040	783544	1 - 661	15 - 675
HDPAX21	9041	670893	1 - 487	15 - 501
HDPAX46	9042	719027	1 - 403	15 - 417
HDPAP04	9043	615193	1 - 384	15 - 398
HDPAP08	9044	972332	1 - 1554	15 - 1568

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HDPAC064	9045	746550	1 - 445	15 - 459	765324, AA575982, F09955, H88491, and AA947153.
HDPAN94	9046	901123	1 - 450	15 - 464	AA917335, Z203203, AL080176, AF144235, and A74743.
HDPAC09	9047	494170	1 - 437	15 - 451	AW168420, AL254913, F12561, AL382825, AA846952, F08248, AA572999, AI751216, AA302973, AA613627, AA578621, A818737, H07953, AI536552, N22037, AA760808, T74524, H67863, AC005755, AL049694, AC004662, AF134726, AC004605, AL021393, AC002994, Z98051, AC005261, AL034417, AC004019, AC005484, AL049779, U91321, AC002074, AC007216, AC007637, AC007242, AL031282, AC006001, AC005411, AC005900, AF053356, AC004805, AC004526, AC006344, AF111168, AL022329, Z82206, AC005389, AP000555, AC004881, AC002302, AC005668, AC005086, AC004985, AC011331, AL049830, U95742, AC004996, AL031255, AL035071, AC004975, AL049697, AL049758, AC002312, AF117829, U85195, AC005534, AL035423, AL035683, AL122023, AC007676, AP000502, AC005726, AE000638, AL080243, AC005071, AF001549, AC007226, AF001548, AC006120, AC004067, AF196779, AC002330, AC002429, AC006379, AL109628, AC007225, AC007225, AL010770, AC005529, AF088219, Z85987, AC006040, AC003010, Z83840, AF030453, AC005391, AL109754, AC005088, AC007376, A011930, AC002476, AC004099, AC005049, AL049766, AC005602, AC005756, AC003080, AC006946, AC006026, AC010205, AC005829, AC007690, AC004757, AC006043, AL109952, AC000052, AC002316, AC004695, AF031078, AC005027, AL139054, AC007731, AC006965, AC005500, AF030876, AC005015, Z99716, AC007878, AL035403, U07562, AC006480, AC004890, AL023575, AC004400, AL031659, AC005324, AC006538, AC007308, AC005046, AL117258, U91318, AC005320, AL078477, AC016025, AC005512, U89337, AC007666, AC004797, Z97056, AC006966, AL022722, AC006039, AP000045, AL035398, Z94056, Z85996, AC006023, AB001523, AC004821, AC005962, and Z82198.
HDPAC164	9048	881654	1 - 428	15 - 442	
HDPAC117	9049	663779	1 - 573	15 - 587	AA680145, W60281, T86901, AW058463, W60373, T86900, Z54200, and AF106862.
HDPAC140	9050	856391	1 - 555	15 - 569	T92908, T92904, AA504485, T92996, and T93000.
HDPAC90	9051	787296	1 - 806	15 - 820	AA020898, H48269, AA599610, I809570, W73575, AL693860, AL393815, A7339773, T51762, T51608, and AA284050.
HDPAC78	9052	773570	1 - 226	15 - 240	H82420, H82680, and AL078581.
HDPAC34	9053	581900	1 - 442	15 - 456	T94880.

HDPA80	9054	775417	1 - 501	15 - 515	15 - 704	T84574, and AI92443.
HDPA38	9055	546575	1 - 690	15 - 704		
						AI037050, AW081941, AW406447, AA342901, AW080858, AA916039, AW074398, T71998, AI290050, AI281903, AI689097, AI610491, AI054246, AI053816, N71724, F19258, AA095511, AF177861, AA336362, AP377385, AW277758, AA501722, AA340003, AA308806, AA318652, AI57551, AI562545, AI886176, AW236342, N22059, AI364809, AA918114, AI859251, AA515435, AW301818, AI919265, AI138265, AI287451, AA4177061, F29989, AW440976, AI053429, AI053672, AI274692, AI696962, AI040547, AI307426, AI284640, AA932099, AI344443, T06556, AW340844, AW361583, AI358229, F36273, AA743936, AA553465, AI963095, AW406755, AI200051, AI291124, AI365988, AI654588, AI291268, AA5071063, AI57030, AW339687, AI635272, AI133164, AI321311, AI161799, AI016000, AI041368, AI138455, AA522763, AA652057, AA649642, AI264743, AI610159, AI469172, F24284, AI690686, AI623132, AI745410, AI048616, AI654627, AA601892, AI537955, AA454925, R13151, AI446601, AI801591, AA501784, F32705, AP000356, AC006004, AI121603, AC006064, AC005215, AC004814, AC005940, AI034420, AC004491, Z73359, AP000245, AI049636, AC006480, AF053356, AP000556, AC004894, AC002350, AP000552, AC005324, AI020993, AI022324, AC002072, AC004895, AF045555, AF111168, AI121653, AC005619, AC002316, AC003043, AC006285, AC004477, AC005800, U07562, AC005412, AC005081, AI121655, AI121658, AC006001, AC005046, AC005099, AC005722, AI096701, Z84484, AF111169, Z97054, AC007225, AC005920, AC007216, AC007899, AC005015, AF196779, AC007878, AI035683, AC004966, AI035521, AI035460, U95742, AC004962, AC007242, AC006388, AC000025, AC000083, AP000210, AP000132, AC004534, AC006111, AC004156, Z82214, AI096791, AC007276, AC007371, AC007686, AC016025, AC005529, AC006312, AC008041, AC004812, AI021453, AI033392, Z86061, AI132718, AF129756, AI031584, AC006153, AI049779, AI021918, AC007707, AC005157, AC005037, AP000030, AP000558, AI023284, AC005790, AI109967, AC007666, Z98742, U91323, AC007011, AP000248, AF001549, AC004815, AC008134, AC005284, AC004890, AC006251, AC005066, AP000251, AP000557, AC004964, AC005280, AC005696, AI024507, AC003982, AC006071, AC004841, AP000474, AI049569, AC006211, AC008101, AC009330, AC007277, AC000078, AF196969, AI1079340, AC002070, AC000052, AI049830, AC004745, AC007450, AI024498, AC005180, AI133243, AI031228, AC005666, AC003119, AC004150, AI035587, AI035090, AI035249, AC003104, AC006195, U91326, AC005250, AI031005, Z98743, AC007537, Z98048, AI251973, AC002432, AC004776, AC007262, AC005694, AC004148, AC009516, AC004983, AC000159, AC005562, Z84466, AC006057, Z82491, AI031848, AC005288, AC005625, AC005510, AC002369, AI109802, U89337, X64467, AC007387, AI034451, AJ010770, AC007688, AB026898, AI021391, AP000311, AC002312, AC004472, AC005755, AC004750, AI031777, U47924, AI022323, Z93017, AC002525, Z82182, Z85987, AC004770, AP000692, AI035450, AF042090, AC004813, AI031230, AI132777, AC002115, AC004650, Z83844, AI008582, AC005911,

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HDLBE11	9056	966230	1 - 365	15 - 379	AA419383, AA411025, T03583, AA233359, AA969363, AA186898, AA485941, F12361, T65562, T59612, AW020599, AA989107, AA831152, F13808, AA745507, AW020088, AW022855, R61498, T78512, AA54153, AA720755, C15363, AF165926, AC005324, AL035086, AF111168, AC003098, Z99716, U85195, AE000658, AC005488, AL049758, AC004491, AL136295, AL030997, AC005736, AC003035, U95742, AC006059, Z99289, AL133245, AC003041, AC007151, AC007216, AF109907, AC003553, AC006014, AC003367, AC005914, AC003776, AC006965, AC007057, Z98742, AL031121, AL008715, U110292, AL132641, AF088219, AF107258, D83253, AP000240, AC007226, AC007193, U91326, AC007022, AL122020, AL035089, AL024507, AC005368, AC007421, AC004765, AC002430, AC002367, AC007384, AL121603, AC006538, AP000010, AC005971, Z99572, U07562, AL035460, AL031311, AC005412, AL049829, AC005666, Z97054, AL031120, AL049872, Z97183, AC005702, AL078638, AC005520, AP000495, AL049856, AC004816, AL022476, AC006480, AF053356, AC005730, AC004675, Z98200, AP000152, AC006241, AF205588, AL049795, AC005089, AL050318, AP001038, AL031666, AL035423, AC005355, AC003070, AC002400, AC005184, AL031584, AC005726, AC006211, AC006312, AP000555, AC007707, AL022163, AC005037, AL049646, AC004821, AC009516, AC007277, Z73359, AC005884, U47924, AC004890, AP000201, AC005620, AF186189, AC002470, U07563, AC007225, AL008582, Z83892, AC005081, AL022237, AC004382, AC004800, AC005826, AC006379, Z92540, AC006537, AJ011930, AL020332, AL031431, AL050308, AC005231, AC005874, AF134471, AP000097, U91322, AP000704, AC004796, AC007376, AB023048, AC002301, AC006441, AC006064, AC006066, AC008085, AL022165, AC007917, AL135744, AL132987, AC002331, AP000155, AL022326, AL132712, D87009, AC000052, AC004230, and AB003151.
				15 - 557	AA059372, AA063107, H92283, and AL096766.
HDLAX74	9057	765091	1 - 543	15 - 833	AA033545, AW265437, and AA332853.
HDLAX52	9058	726241	1 - 819	15 - 883	AA461055, and AL371831.
HDLAW58	9059	735559	1 - 869	15 - 310	AA481536.
HDLAV11	9060	852919	1 - 296	15 - 443	AL354333, AF715876, AL538236, AA828153, AW080910, AL049712, AC008079, AP000501, AC007226, AC007899, AC005082, AC005920, AL021393, AL031737, AC005378, AL049830, AL009031, AC006271, AC004796, AL022320, AL049869, AP000552, AP000493, AC007790, AL0078623, AC007384, AC007216, AL132826, AC002326, AL020997, U95742,

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HDLAC67	9062	751699	1 - 423	15 - 437	
HDLAC51	9063	799888	1 - 476	15 - 490	
HDLAC30	9064	799891	1 - 267	15 - 281	
HDLAA38	9065	736081	1 - 479	15 - 493	AA447870, AA447714, AA574205, AA502267, AC012384, AC004941, and AC006463.
HDCBF12	9066	969401	1 - 446	15 - 460	AL874270.
HDCBD07	9067	951948	1 - 416	15 - 430	AL559233, and AC005955.
HDCAN06	9068	933818	1 - 332	15 - 346	AA128887, AA128895, AP000542, and AJ239321.
HDCAG61	9069	852968	1 - 495	15 - 509	AA658364, AI096634, and AI767001.
HDBAK09	9070	625387	1 - 705	15 - 719	N57222, and AL033377.
HDBAA11	9071	966723	1 - 447	15 - 461	AA680050, AI821757, and AW270550.
HCWWH01	9072	915420	1 - 496	15 - 510	AI690025, AA719414, AA502477, H71101, Z36759, AA584859, AC003684, AC005529, AC005527, AP001032, AC006211, AC000025, AC005581, AL022717, AL021155, AL022578, AC006270, AC004910, AC006026, AC004682, AC004884, AC008040, AF196779, AC003010, AC008116, AC006077, AL022319, AL117338, AC007225, AC004382, AL034429, AL008722, AL022336, AF196969, AC005412, AC008072, AL009172, AC005088, AC005697, AC009516, AC006449, Z94056, AC004638, AC009294, AC005089, AC004685, AC004963, AL080243, AC005776, and AF030453.
HCWVA80	9073	974488	1 - 457	15 - 471	AC007349.
HCWUS57	9074	974462	1 - 565	15 - 579	N88601, N84855, AA247827, N84048, N83992, AA096046, AA095359, N89520, N83991, N83168, AA247964, N88782, H58760, AA093224, N55698, AA095641, AA096066, AA471338, N84718, N86694, N83993, N84712, N88518, N84830, N87989, N84829, AF102850, U48696, AF039698, AF066487, AF103726, S78798, AF045432, AF123486, and U39066.
HCWUS50	9075	974467	1 - 568	15 - 582	N88782, N84855, N88601, H58760, AA095359, N83991, N83992, AA096046, and AA096046.
					N83168, AA247827, N89520, N84048, AA247964, AA095641, N84830, N84712, AA471338, N84718, N86694, N55698, N83993, N84829, N88518, N87898, AA089553, U39066, AF102850, AR066487, AF103726, S78798, U48696, AF045432, AF039698, AF032922, and AJ243486.
HCWUQ81	9076	853002	1 - 505	15 - 519	H83216.
HCWUQ10	9077	964080	1 - 471	15 - 485	AI082150, and AA865640.
HCWUP62	9078	743064	1 - 597	15 - 611	H44723, AI820926, H26859, and AI820767.
HCWUM01	9079	974466	1 - 634	15 - 648	H58760, AA096046, N88601, N84855, N83168, N88782, AA247964, AA095359, N83991, N89520, N83992, AA247827, AA096066, N84048, AA095641, N84830, N84718, N86694, N55698, N88518, N83993, N84712, N87989, AA471338, AA089553, N84829, N87898,

HCWUJ35	9080	706530	1 - 679	15 - 693	AC005226, AF103726, U48696, AF039698, AF102850, S78798, AR066487, AF045432, AF032922, AL243486, and U39066
HCWUJ49	9081	722674	1 - 396	15 - 410	AA418115, AA417937, and AA765368
HCWTP17	9082	662486	1 - 430	15 - 444	AA126089
HCWTL02	9083	919252	1 - 608	15 - 622	AL417821, and N25970
HCWSC38	9084	706523	1 - 533	15 - 547	AA446435
HCWLA43	9085	927571	1 - 427	15 - 441	AA428577
HCWK171	9086	888167	1 - 333	15 - 347	N57837
HCWKS70	9087	757172	1 - 340	15 - 354	AA576413, AL521525, AL249365, AW238712, AL040430, AL188049, AA286836, AW020150, AL278372, T30864, AL557422, AA572974, AW475302, AA947265, R49266, AA729253, H9177852, T30864, AL557422, AA572974, AW475302, AA947265, R49266, AL041681, AL041682, AL567391, AL035681, AP000344, AL031120, AL096791, AL022165, AC007363, AL034429, AP000359, AP000301, AC005998, AC009247, AF047825, AF035906, AF045555, AC005484, AL132712, AC005702, AP000116, AL122020, AC007934, AC004815, Z82190, Z98036, AC004144, AC004834, AC004148, AL049576, U91319, Z98884, AC007225, U63721, AC005520, AC006270, AC002558, Z93930, Z85986, AC009509, AP000555, AL0223805, AC005037, AP000252, Z84480, AP001053, AF064861, AC005288, AL020997, AF112482, AP000080, AC006965, AC004476, AC004890, AF111168, AL008718, AC007842, AC004560, U47924, AL133243, AC006468, AC007227, AL049830, AC002563, AL031577, AC005913, AC002314, AL034549, X89398, AC005015, AC005231, AC007308, AP000505, AC019014, AL022326, L78833, AC002310, AB020865, AP000691, AC005412, AL049692, AC005971, AC006132, AC004878, AP000547, AC002288, AC005225, AC012330, AC005089, AC005510, D42052, AC003982, AC005736, AC006960, AC004983, Z82198, AC006241, AL049760, AC007676, Y14768, AF205588, AC005488, AL031295, AC000094, U91323, AF031078, M27147, Z93017, AC005387, AL008729, AC000003, Z98304, AC004000, AC004019, AC005102, AL049569, AC005057, AL035458, AC0004623, AC005932, AC008372, AC016025, AC002511, AC005399, AF030876, AF129756, AC007193, AC004814, AC005874, AF134471, Z97056, AF176815, AP000354, AC005632, AC004998, AC003104, AC002389, AP000212, AP000134, AC005839, AC005730, AC004916, AC005212, AC004685, AC004024, AL096703, AC007536, AC005899, AC005067, Z83844, AL049776, AP000501, AL096766, AC007666, AL135744, AC005755, AF195638, AC004466, AL132987, AC008132, AL031229, AL034402, AL121603, Z69921, AC006261, L47234, AC002565, AC004821, AC003026, U07561, AC002316, AL035450, AC006030, AL049758, U95739, AC005328, AC008012, AL117356, AC004526, AP000131, AP000209, AC002400, AP000141, AC004382, AL009610, AC004876, AP000045, Z98886, AC006064, AC007055, U85195, AC005722, AC002477, AC007384, AF001552, AL133245, AC006948, AC005207, Z97054, AL009181, Z85987, AC003983, AF001545, AC005527,

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HCWKS35	9088	706518	1 - 319	15 - 333	AL121879, and AC002526.
HCWKR86	9089	784705	1 - 369	15 - 383	
HCWKR85	9090	783555	1 - 271	15 - 285	AL181879, AW270258, AA659360, AL254779, AA602906, AW438542, AW075729, AL708005, P00564, AA700943, AA622801, AW117740, AA833896, AA833875, AA769429, AL048275, H53217, AA765170, N72170, AW020992, AL249886, AW438539, F02999, H66577, AL654247, R95840, AL253376, R94288, AL281881, AW304805, AA470567, AA302978, H60249, AC0010169, U67818, AC007055, AL109984, AL121655, AF039907, AL139054, AC006077, AC006211, AC016027, AC006441, AC016830, AF053356, AC005015, AC002477, AL049633, AL049780, AL035422, AC004067, AC002350, AC002351, AC004031, AC007199, AC004752, U78027, AC006251, Z97184, AC007565, AC006480, AC004087, AL031311, AP000299, AL133246, AC005911, AF111168, AC005377, AC006323, AL021939, AC004922, AC007551, U85195, AC005914, AP000032, AL022163, Z97056, AL022311, AC004815, AP000212, AP000134, AC004382, AC002429, AC006333, Y15727, AB000658, Z83840, AC004893, AC005837, AC005200, AC004983, AC002463, AL031291, AL050321, AL031666, AC005821, AC005180, AL080243, AC002544, Z93023, AC006312, AC007688, AF196779, AC005940, U34879, AC002107, AL049776, AP000045, AP000113, AC005264, AL049856, AC005273, AC005902, Z93241, AC005438, AC004796, AL010770, AC004805, AL031848, Z81364, AC006014, U91326, AC003098, AC005369, AF088219, Z99943, U73637, AC007263, AL133353, AF017104, AC005089, AC004841, AF111167, AC002312, AC005295, AL031985, Z93020, AD000833, AL049872, AF001552, AC005620, AL049713, AL022165, AC000039, AF031078, AC020663, AL021154, AL021394, Z82976, AC005520, AL023803, AF047825, U52112, AC007860, AC004821, AL023575, AC005225, AL133245, AP000555, AF015416, AC004148, AC005722, AL022476, Z83826, AC005562, AF030876, AC007308, AC004000, AL096701, AC007277, AC004216, AC004125, Z70280, AC004638, L78833, AC004686, AL022320, AC000499, AP000563, AL030996, AC005484, AC006208, AC005048, AL033521, AF031602, Z82208, AC005086, AC005183, AP000692, Z97054, AC006449, Z68870, AC002531, AC004914, U15177, AF207550, AL096801, U07563, AC005756, AL022316, AL035398, AL096791, AC004647, Z98941, U95743, AC005519, AC005399, AC004675, AP000431, AC004913, AC004104, AL023553, AC002072, AC007868, AL049766, AC002543, AP000501, and AP000346.
HCWKR62	9091	742602	1 - 314	15 - 328	F78195, AL284640, AA581903, AA652764, AA482711, AA111909, AL431303, AL631363, F79989, AW419262, AA214342, T53128, AL041690, AA514737, AL187516, AW088202, AW327868, H71429, AA669840, AL282310, AL192740, AA650211, AL178953, AA483223,

AA496260, AI133297, AI632991, AA768905, AI917271, AW265385, AA828712, AA904218, AA598824, AA503673, AA528519, AA346458, AI046409, AI270117, AA614070, AA623002, AW029038, AJ962050, AI619997, AI038072, AA228420, AI588229, AI71513, AA490183, NZ7760, AA085124, AI625244, AW301350, AA493708, AW406755, AW303196, AW274349, AA834755, AI368256, AA703891, AA906889, AI334435, AI929531, AA501600, AA721981, AI307608, F36273, AW193295, AI904894, AA482681, AI696962, AA531372, AI339850, AA491284, AE580652, AA767376, AW023672, AA846952, AA745355, AA587604, AA877817, AI887483, AA657535, AI254316, AI177061, AA629992, AA469451, AA228332, AA502050, AI038785, AA652057, AI064864, AA533725, AA493456, AI686809, AA601270, NZ5303, R95139, AW062724, N71728, AA488573, AA878438, AA719292, AA992351, AI0010783, AA613227, AA501418, AI828463, AA568341, AA837084, AA501722, AI613280, AI345157, AI679045, AA079328, AI305766, T94075, AA196796, AI164251, AI819574, AA515644, II86431, AP000294, AP000111, AP000043, AC005215, Z98885, AC006312, AF015416, AC004813, AC007051, D83989, AC007919, X53550, U18391, U18392, X55925, AF077058, U57009, U18395, U18394, U57005, I51997, X54181, X54178, U57008, AL031985, X54180, U57006, AC007773, AL008715, AI121655, AC004853, X75335, AP000090, U18399, AI133353, AL080242, AI022163, AF015160, X54175, U18398, U18393, X54176, AC000353, AF190465, AI17330, AL049829, Z84469, AC004451, AL035450, AC009516, U18387, AP000553, AL117258, Z69666, AC002094, Z93241, AC002470, X55924, Z98051, D87675, M57427, AI034451, AL035361, U67218, U18390, AC004534, AC007541, AC005594, AB009804, AC004069, AC005231, AC004593, AL049699, AC005625, AC007437, AL078477, AC007384, AL023882, X55931, AL031257, AC005755, U07562, AC002430, AC003007, AL049544, AC006241, AC002369, AC004019, AL035410, Z86061, AC007151, AC006271, AL132987, AL022322, AP000459, AC008064, AC003109, AC002476, AL121603, AC005701, AC005229, AC004883, AC006373, AC000035, AP000402, AC006288, AL031719, AL049643, AC005089, AL031286, AC005740, AC001231, AC007999, AL096774, AC004884, AC005412, AC007226, AC004643, AC006057, AL021453, AC006285, AL031053, AC003003, AL035405, AC002041, AC011422, AC005632, AC004966, U63630, AC004832, AC002347, AC006344, AI251973, AC002310, AC004016, AC006006, AL008716, Z69917, AP000117, AC004821, AL079340, AC007686, AC002373, AC004638, U18396, AL049557, AP000349, AC004982, M37551, AC000025, AP000193, AC004099, AC004918, AC005881, AL078463, AC007191, AI132994, AC005527, AC002468, AC006011, AF128525, AF165142, AL080243, AC007462, AC007279, U91321, AC006213, AL022302, U63721, AB020865, AC005563, AC006960, AF111169, AC010170, AC004895, AC016027, AC004662, AC005784, AC005291, AF123462, AC003047, AC002429, AC000004, AL031662, AL021808, AC005914, AL050333, AC008249, AC000052, AL049759, AL008718, AC002308, AC005295, AC004933, AC006130, AL049697, AC005399, AC007043, AC004914, AF041427, AC005331, AC004987, AC002565, AL035458,

HCWKR51	9092	725027	1 - 329	15 - 343	AC007274, AC004152, AL109963, AC003957, AC007387, AC006537, AL031428, AF001549, AC006251, AL133238, AC007032, AC007656, AC007487, AC005924, AC004876, AC006016, AC011504, U95742, AF010238, AC008372, AC005212, AC005682, Z83822, X55928, AP000328, AL050343, AC002425, Z98744, AC005037, AC005323, L13176, AC005829, AL049776, AC005592, AC002538, AC005488, AL049712, U78027, AL096771, AC004799, AL031255, AL031427, and AC007537.
HCWKR14	9093	658421	1 - 413	15 - 427	AL376239, AL887314, AL243387, AL632810, C15060, AL857756, AL457313, AL034187, AW069227, N58179, AA630535, AA452887, AA598927, AW151247, AL192839, AA669054, AA811741, AA743968, AA218720, AA084609, AW082470, AA368616, AA604865, AA548886, AA340581, AA581247, AL71476, AL912401, AL066646, AL357628, AL357995, AL536858, AL130709, AL955029, AL491765, AL021189, H07953, AA626829, AW272640, AL021429, AL742168, AA481887, AA489240, AL370170, AA659608, AA086318, AW080356, T4524, AA515457, AW188742, AA493731, AW304699, AL679221, AA598605, H84412, R43992, H48767, AA666295, AL289941, AL802087, AL289942, AC005058, AC007421, AL049636, AL031685, AC016027, AL021878, AC016830, AC002996, AC005225, AL03147, AC002302, AC005940, Z84466, AL035587, AL049776, Z97876, AC005512, L34294, L24093, AL080243, AC004531, AC004216, Z98946, AC005082, AC005844, AC004542, AL034420, AC006347, AC005231, AC004817, AC006449, AL049697, AC005071, AL024508, U63721, AP000501, AC006285, AC002352, AC005412, AC005006, U80017, AP000212, AP000134, AC005881, AC002565, AC006200, AC004598, AL035690, AC002569, AC005971, AC007671, AF047825, Z85986, Z84480, AC002303, AC005049, U95739, AL021578, AC007051, AC004590, AC006006, AL022721, AP000252, AL049830, AC005696, U91325, Z83987, AC002045, AC004878, AC005295, AC006538, AL096701, AC006014, AC012331, AC005041, AC000079, AL136295, AL031311, AC004477, Z83844, AC003109, AL031431, AC007917, AC002350, AL049839, U91321, AC005378, AC008372, U52111, AC003982, AC005839, AC006111, AL121603, AC004648, AL110502, AC004815, AC004882, AC005520, AL049869, AC005399, AL031735, AL035086, AL050307, AC006065, AC010077, AC007395, Z83845, AC007216, AC008719, AL022165, AC007666, AC008040, AC002314, AC005274, AL031602, Z94056, Z98884, AC005529, AC004832, AL022237, Z82206, AL031291, AL049874, U07561, AC005488, AB003151, AC005899, AC005914, AF207550, AL109963, AL031848, AC004895, AL049757, AL109627, AC004526, Z82178, AC005081, AL031657, AC006211, AC002558, AP000042, AP000110, AC007129, AC007325, AL133238, U95742, AL022320, AL032777, AC005037, AL031673, AC004814, AC000035, AC005682, AL050321, AL121653, AL022316, AC004655, AC006023, AC007938, AC004851, AC020663, AC006509, L47234, AC002390, AL109623, AC006241, AL049793, AL132444, AL022336, AF134726, AL031985, AL022322, Z82215, AC006121, AC004854, AC004893, AP000032, AC006040, AC006057, AL035422, AP000251,

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HCWK009	9094	625146	1 - 448	15 - 462	AW090499, and H43869.
HCWK172	9095	760628	1 - 188	15 - 202	W45058.
HCWKD85	9096	783545	1 - 288	15 - 302	R00030, W88606, AA777327, W88525, AL033236, and R00122.
HCWK061	9097	741803	1 - 640	15 - 654	AA148646.
HCWHN53	9098	728248	1 - 332	15 - 346	AP963720, AA490183, AL046409, AW406755, AL413303, AL284640, F36273, AL345654, AA581903, AW193265, AL754955, AW072923, AW274349, AL119691, AL344443, AL350211, AA525824, AL270117, AW303196, AL613280, AA610491, AW276827, AL043719, AW301350, AW19762, AL281881, AL679782, AW438643, AL561060, AW327868, AL801591, AW088846, AL246119, AW270270, AA491814, AL344844, AW029038, AL754253, AW276435, AL345681, AL345675, AL200051, AL341664, AL619997, AW238278, AL138455, AW072587, AL085719, AL696793, AW265009, AL061334, AL289067, AL471481, AA720702, AL357288, AL379719, AL375710, AL792287, AL053672, AA613345, AW162049, AL962050, AL037683, AL801600, AL929531, AL044940, AL358229, AA713815, AW410400, AL671543, AW276817, AL799642, AL860020, AA469451, AL355206, AW408717, AW193432, AW407578, AL669453, AL041690, AL688846, AL39850, AA521399, AA521323, AL754658, AL046205, AL761471, AW406162, AA806796, AL537955, AL110770, AL365988, AA669840, AL589230, AL042420, AL120687, AL133164, AW265393, AW404653, AW166815, AA229814, AW088202, AL298710, AL148277, AL124759, AA491284, AL048925, AL630362, AW304584, AL904894, AL633025, AL635818, AL708009, R88888, AA569471, AL610159, AA525190, N88230, AL138265, AL654588, AL631507, AL473943, AL321309, AL345518, AW162489, AW167372, AL038785, AL023270, AL079645, AL871722, AL336660, AA226153, AL890918, AA623002, AL133102, AL568678, AA714453, AA665330, AA577906, H71429, AW008952, W79504, AW071196, AW261871, AL046457, AL281697, AL143242, AL338086, AL928790, AL357551, AL499503, AL467919, AL346695, AW037470, AW103758, AL918421, AL126051, AL126035, AA502155, AA577959, AL564185, AL040382, AA780515, AW088616, AA513141, AL287651, AL71572, AL571512, AL251002, AW008317, AW339568, AL590958, AL749559, AL624142, AL049634, AW023667, AA493708, AL240168, AL482711, AL283911, AA587256, AL370878, AL6162288, AA551552, AL041146, AW080134, AA526787, AW102955, AL564454, N27584, AA621858, AA493471, AL623720, AL487817, AL135405, AL654525, AA507547, AL27528, AL254615, AW276932, AW338500, R98967, AL046898, AA908687, AL886629, AA559290, AL434706, AC005488,
HCWHF76	9099	838528	1 - 683	15 - 697	

				AC005971, AC004593, Z74696, AC006369, AF077058, AF015148, D83989, AC005209, AL031116, X75335, AF015151, AL078623, AC006516, AC005703, AC002070, U18391, X55925, I51997, AC004485, AF015157, U18392, U57007, AF015156, AC005988, U18394, U57005, AF049895, U57006, X54180, AC004063, X53550, AC003104, U18390, U12580, U57009, X54181, U18395, U18393, AC003087, U57008, AC004677, X54179, AF015147, AC004492, U18399, X55926, M37551, AL121871, X54175, AF015153, AL109941, AC016830, AF015166, U167801, X55932, AC007684, U02532, U18387, AC006130, X54178, AC006597, AF015152, AF015167, AC006344, AC005548, AC006013, AC005154, X55931, U18398, X55924, U02531, AC016027, AC006017, A39972, X54177, AF027390, AL136018, AC003957, AC006115, AC005013, U18396, AC004028, AL136297, AL031387, AF017853, AC005699, AL022163, X76629, AC005225, U69730, AL035079, AP000567, AF015149, AC010072, AC005019, AC006989, X55923, AC007043, AC007551, AC004986, AF015150, AC007537, AC009069, X54176, X55922, AC004033, AL236701, U85195, X55930, AC004650, AC008064, AL021940, AL022160, AF042090, AC006539, AC004673, AC006023, Z94801, AE000658, AP001172, AC005792, AC003005, AC006057, AC002379, AC006044, AL132992, AC007387, AC005011, AC004957, AF010722, AC006002, AL009181, Z86090, AL132992, AC007387, AC005011, AL031286, AF015162, AL022316, U18400, AC004821, Z97180, Z69837, AC006512, AL121603, AC009233, AF064863, AC002465, L47228, X55927, AL035071, AL035361, AL133289, AC006430, AC005544, U91322, AF003621, AC004072, U82696, AB023049, AL080285, AL021546, AC005280, AC005164, AP000088, AC004008, Z22650, AC005378, AC007676, AC008981, AC008168, AC020663, AL121877, AL022724, AC007919, AC005531, U57004, AL049829, AL729042, AL132987, AP000047, AC005324, AC007051, AC005841, AL096862, AL021155, AL080248, Z98050, Z86061, AL023879, AL023755, AC006960, AC005188, L35531, AC003701, AC002303, AL031767, AC006111, AL133321, AC003109, AL022238, AB020859, U67222, Z84721, AC006079, D87008, AC002504, U67827, AF020803, AL080243, AC007050, U67222, Z98046, AL050326, AC016026, AL023713, AC004848, AC004534, D88268, AC008134, AL031904, AC007065, AL096770, AL133245, AC004019, S75201, Z69706, AL080242, AF135028, AC011198, AP000477, AC004468, AC004159, AC004158, AF002992, AC006946, AL096776, U66039, AC002996, AC005212, AL023876, AL078621, AC005527, AL035466, AC007227, and AL096861.
HCWG56	9100	732688	1 - 353	H60503, H73127, R87153, and H54125.
HCWGL65	9101	747198	1 - 648	
HCWGR02	9102	920121	1 - 449	T62926, AL565392, and T62778.
HCWGER6	9103	974476	1 - 556	
HCWGER5	9104	783528	1 - 346	AA001715, AA677924, AA633058, and AA730673.
HCWGA64	9105	746153	1 - 217	AL357815, N71226, AA829044, AA651632, AA630672, AA583394, AA629066, AA664900, AA502818, AL860587, H60971, AA535216, AA568754, AW020088, AA213959, H922527.

AA532419, AA714288, AO02941, AL630643, AL038606, AA632744, AA579188, AA581895, AO1051277, AA515728, AA715805, AI524360, AA335907, AL048925, AA011026, AA4714011, AA912688, AA661499, H48620, AI186438, AI249683, AO086368, AV168433, AI119921, AA491681, AI341571, T06598, AW020599, AO058867, AI732348, AA603421, AA838190, AA581263, AI580250, AI828235, AI138329, AA486117, AI612070, AH60009, AO065038, AW270343, AW271069, AA603530, H49568, AA137013, AI610065, AA574001, AA572429, AI207846, AA669155, W03358, AI733856, AA491650, AI754567, T69857, AA491862, AA610509, AA410788, AI611533, AI002744, T59612, AI054419, AA622801, AI278972, AI732349, AW025662, J00083, Z93244, AC005031, U80017, AF002223, AF088219, AC004675, AO006692, AC006953, AC005993, AC062675, AC060601, AC005391, AI080243, AC007999, M33132, AC002407, AC002543, AP001051, Z84483, AL031311, AC005399, AC000085, AL031680, AC006023, AC006353, AL008734, AC006312, AC004750, AC002300, AC004491, AL079340, AC002301, AC007406, AP000270, AL121595, AC005288, AC0022115, AP000962, AI133353, AF045555, AC006468, U78027, AC005011, AI021154, AI121825, AC006115, AC005778, AI020997, AL049761, AC005839, L48038, Z84484, AC007773, AC004232, AC004832, Z98752, Z95152, AC004821, AC007308, Z84474, AI035422, U95739, AC006120, Z94044, AC000026, AP000555, AC007358, AL096712, AL091183, AC005015, AC006064, Z82248, AC004408, AL022316, AC003969, AF064861, AC006344, AC006538, Z69917, AI135744, AC004030, AF027550, AP000104, AC006088, AC006211, AP000032, AC006112, AL034417, AC002059, AP000193, AI122020, AC004841, AL078477, AC006125, AC006946, AC003030, AC007292, AL035541, Z93023, AC002472, AF111168, AL049775, AP000557, AC004230, AL109758, AC007225, AC012384, AC005808, AC002470, AC003043, AI096766, AP000097, AC005159, AC020663, AL022165, AC005884, AC004815, AC007934, U95742, AC005369, AC002477, AC004825, AF085916, AC004560, AL031447, Z93930, AC005529, AL031432, AI022326, AC005088, AC004595, AC004910, AB023049, AC006965, AC007787, AL031671, AF165926, Z70280, AC005368, AP00466, AF196970, AC005102, AC005257, AP000201, AC008042, AC005881, AB023048, AP000117, AC005519, AC004453, AI031659, AI109984, AC004883, AL050341, AC004149, Z97054, AC007792, AC006111, Z83826, AL021707, AP000266, AC005932, AI022476, AC004966, AC004851, AC008041, Z85986, AC003109, AD000833, AC005037, AL031289, AC007277, U62293, AI022336, AI251973, AC005409, AC004236, AL139054, AC004884, AF200465, AP000159, AP000017, AC002492, AC009509, AC007686, U67820, AL049776, AF196779, U07562, AC004000, AC004938, AC005800, AC004032, AC007216, AC007371, AI023494, Z98742, AI109802, AC006947, AI133448, AL035587, AL109627, U73634, U07563, AI121658, AF030453, AC007676, AC008119, AP003032, AC005412, AC002549, AC004686, AL009051, AC004991, AP000345, U91322, AL031281, AL049872, AC004967, AC005796, AC005261, AC002072, AF051976, AL035423, AF190465, AC000118, AC002994, AL078584, AC002563, AC004019, AP000030,

HCWFV07	9106	953582	1 - 417		AC005486, AC022517, AL121653, AL033527, AL049795, AL022324, AC005632, AC005033, AC002565, AC005274, AC002554, U52112, AL034420, Z83838, and AC005525.
HCWFU40	9107	710419	1 - 516	15 - 431	AI125400, AA884999, AF124523, and AF118808.
HCWFEM44	9108	716726	1 - 591	15 - 530	AA194830, AI168347, AA878779, and AW193187.
HCWFK37	9109	800389	1 - 292	15 - 605	R76265, R97725, A741451, AJ868531, R26030, H57394, R26000, AC004654, AC005260, AC005392, AC004784, AC005238, and AC005791.
				15 - 306	AA669155, AI891080, AC009094, AL035249, AC009247, AC004805, AC005399, AC005005, AC004928, AC004148, AC004858, AC005304, AL049636, AL121754, AC004743, AC004895, AL020997, U91326, AC002416, AC005003, AC007688, AC004821, AL021392, U91322, AC007774, AL031733, AC006211, AC005529, AC005484, AC005841, AL022238, AP006096, AL031283, AC005520, AC003101, AC007358, AC004129, AL133448, AC002544, AC005846, AC002301, AL109798, AF053356, AC006277, Z73417, AL049643, AL109839, AC004408, AC005837, AF207550, AC007308, AC005971, AC004983, AC004478, AC005338, AL049709, AP000326, AL022721, AC008134, AC005544, Z98884, Z83844, and AF001549.
HCWF171	9110	489879	1 - 425	15 - 439	
HCWFE35	9111	722467	1 - 383	15 - 397	H95168, AW249352, AA479537, H17384, AA340567, AW161280, AA160751, AW162903, AA220220, AI929687, AI005164, W51926, AA130689, AA907575, N75168, AI676056, N29217, N26362, AI244335, AA833853, W58723, T11688, AI806567, T57726, AI017884, AW055105, AA836509, AA478719, AA431503, AI972277, AI735743, AI830776, AI582674, AF609762, AF188202, AF188203, AF188204, AF188201, AF169647, AF169648, and AF045528.
HCWFA63	9112	578898	1 - 349	15 - 363	AI890862, AC000025, AC007227, AC005529, AD000092, AL049709, AC004491, AP000353, AL031295, AC002369, AC005531, D00591, AC007666, AC005736, AP000555, AC007308, AC004477, AC003684, AL080243, AC006449, AC004859, AC005913, AC007055, Z98884, AC006001, AC005513, AC000052, AF134726, AL023807, AC005291, AC004019, AL049830, AC003982, and Z93023.
HCWFA51	9113	584725	1 - 361	15 - 375	AA601216, AA603315, AA262273, AI904944, AA594018, AI565084, AW187189, Z42587, AA745653, AA586433, W24312, AA558404, AA074942, AA828153, F35674, AA508069, AI037837, AA714729, AA584484, AA788951, AI018726, AW247389, AA314126, R56810, AA363003, AI049643, AA486877, AI284126, AA271530, H71678, AA721523, AA582350, H54252, AA526643, AA507993, H81732, H65213, AW088557, AA634926, H53284, N74566, AW243945, AA669560, F23307, N57674, AI039539, AA564256, AI884861, AA064978, AA678976, AI251576, AA642809, AI306232, AI620266, C06471, AI623715, AW274191, AA481765, H52397, AI583466, AI159799, AI276360, T69571, AI506717, AF678616, AI984168, AA029860, R33091, AA553579, AA018923, AA012829, AI252880, N27615, AW188419, AA654482, AI583448, AA635413, AA321010, N54538, AA367014, AC007308, AC004531, AC005696, AI122020, AC008009, AL049709, AC007688, AL034423, AC000035, AC006430, AC002551, AC005072, AC008124, AC016027, AC008928, AC016830, AC000025,

HCWFA35	9114	908820	1 - 352	15 - 366	AC003070, AL121825, Z77249, AC007541, AF006752, AL031311, AC005514, AC007666, AC002070, AP000113, AP000045, AC005049, AC007686, AF005356, AC006960, Z86090, AL096776, AL133163, AC008044, AC007151, Z85986, AC004638, AC001621, AP000359, AL049631, AL102337, AL022396, AL009181, AC006277, Z98044, AL121658, AL109758, AC006064, AL135960, AL131016, AC004491, AC005102, AP000502, AC004797, AC006111, AL024498, D00591, AL123575, AC004859, AC005081, AF002223, AC005555, AC005529, AC016025, AC005031, AC003108, Z97185, Z93241, AL121655, Z93241, AC005664, AC002365, AC005899, AL109984, AC005237, AC004876, AC005189, AC006511, AC006512, AC000120, AC005914, AC005089, AF196969, AD000092, AL034379, AL096701, AC005746, AC007227, AC000052, AL1050318, AC004150, AC005383, AL049830, AF047825, AC004975, AC003029, AC005736, AC004832, AC004148, AC005488, AC005837, AP000350, AC002350, AC006275, AC006480, D87675, AC004816, AL133243, AC005722, AC005538, AC002126, AC007191, AC005901, AC005531, AC005972, AF196971, AC007878, AC004601, AP000090, AC005527, AL133445, AC007216, AC007226, AC004019, AC002492, AC005523, AC000379, AC004668, AL121653, AC008072, AL034420, AC002369, AL049776, AP000009, AL133246, AL035249, AL009172, AD000813, Z82244, U47924, AL080243, AL121652, AC005921, AC003983, AL009172, AC004167, AF111169, AL031120, AL136168, Z97053, AC002117, U95742, AC002312, AP000356, AC005372, AL022322, AL123513, AC005015, U80017, AC005932, AC005993, AC000452, AC003071, AF001549, AC002300, AF134726, AC005412, AL049795, AC006026, AP000692, AL117337, AC006132, AL049757, AC002470, AP000150, AC006241, AC004257, AF190465, AC005480, AC005726, AC006014, AF048729, AP000150, AC006241, AL008718, AC004814, AC004611, AC007199, AC007773, AL031587, AL031591, AC007030, AC004589, AC006538, AC002316, Z97353, AL031732, AC003962, AC006965, AC002094, AC005399, AC006050, AC005821, AL0335458, AC005920, U85195, AL021392, AC005387, AC005409, AL109627, AC005288, AP000513, AC004477, U91321, AL021391, AF064861, AC002310, AL121748, AL034582, AC004560, AC006211, AC003959, AL035420, AC005386, AL021155, AC005193, AL102721, AC004801, AL022476, AC005778, AC005338, AC004966, AL022328, AP003147, Z81365, AC007314, AB023048, AE000658, AL031666, AC004448, Z95116, AC006126, Z85996, AC000353, AL035086, AC004031, AC006041, AC004447.
HCWFA27	9115	578899	1 - 337	15 - 351	AL022322, AC002045, AC002375, AF001549, AP000510, AC006480, AC004491, AC004150, AL133163, AC008372, AC006275, AL021155, AC002094, AC004985, AC006530, U91322, AC002400, AC005914, U91326, AC006163, and AP000032.
HCWFA03	9116	921938	1 - 367	15 - 381	AA191418, AW131043, AW020736, A1962030, AA515728, A1904591, AW020088, W39694, AA833896, AA833875, AA644090, AA578621, N22425, AA600202, AL566408, AA581247, AN001764, F13808, AA452887, A1557397, AA559208, AL590096, AW068007, AW068008, AW067788, AA526326, T15454, AA449428, A1273847, AW192284, AA365190, T72218.

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HCWEW02	9117	573389	1-249	15 - 263

				A284543, F16345, AL1801563, N83186, AA846923, H58293, A1927275, AA368155, AA610381, A1271162, AA714955, AA609792, F35684, A1249853, N64587, A1254770, AA452569, B42904, U82668, AC005231, Z83845, AL132712, AC006130, M87912, AC006604, AC005785, AC005519, AC006381, AC002369, AC002425, AL1020995, AP000239, AC003688, AP000497, AL035413, Z84469, Z47046, AF045555, AC006111, AF111168, AL121655, AC005484, AC003982, AC004966, AL031662, AC006263, AC007421, AP000353, AC007566, Z95113, AC005005, AC033527, Z93783, AC005844, M74900, AC002477, Z84487, U29119, AC004659, AC002430, U80460, AL133245, AL035703, AL080243, AC005747, Z79996, AC005081, AL109963, AL022323, AL031848, AF053356, L34635, AL031289, AL034417, AC007371, AC005759, AL121020, AC007384, AC006254, AC005624, AL023575, AC004263, AC005755, AL133163, AC006146, AC005971, AC007225, AC008079, AF187320, AC003101, AC004771, AC004990, AC002378, U91327, AC004890, AL031575, AC002316, AL109623, AC007011, AC005900, AC004821, AC002117, AL139054, AC007666, AC005015, AD000812, AP000349, AC005828, AL020997, AF031078, AC018633, AC006538, AC004477, AC006126, AC002476, AC006312, AF111169, AL021578, AC006441, AL022097, AL022336, AF030876, AC004991, AC005049, U95739, AL096791, AC005940, AL049712, AP001053, AC004685, AL011930, AC004854, AC000052, AC006332, AC003080, X69907, AL031295, AC006960, AL022318, AF196971, AC005548, AC002551, AC002558, AC004878, AC004750, AC004891, AL031602, AC007731, AC004838, AL035249, AL022313, AL109627, AC004033, Z93017, AC005625, AC005500, AC005730, AC007676, AC006515, AC005803, AL109758, Z94044, AC004668, AC005255, AC004598, AL031255, M30688, AC005924, AL133382, AL049839, AC004019, Z82190, AC006071, AC005512, AP000095, AC006141, AL109753, AC005954, AC006455, AP000359, AC000082, U91326, AC010722, AC006468, AC006241, AL031186, AC002544, AC005261, AL096701, AC004752, AC005274, Z98946, Z98884, AC005756, AC005387, AL133243, AC004791, Z98051, AC002996, AC004186, AL049829, AF107045, AC009464, AC005695, AL049759, AC004491, AC004195, AC000397, AC007201, AC005874, AF134471, AC005089, AB022785, AL022721, AL121653, AC005527, AL035420, AF017104, AC005071, AL024507, AC005837, AC002347, AC005288, AC005694, AC002350, AC003043, U80017, AC004841, AL031774, AL034549, AC004895, AC005368, AC004653, AC008134, AL035695, AP000553, AC005773, AC002094, AC005529, AL022717, AC004799, AC005214, and AC005568.
HCWEW68	9118	849928	1 - 309	A1872229, Z92703, A1521019, AL068566, AA470933, A1733523, R54095, AC004230, AL022318, AC004020, Z81450, AC005202, AC004652, AL050318, AL008716, AC006064, AC002425, AL020997, AC002476, U85195, A1003147, AF004771, AF053356, AL021453, AF000658, Z49236, AC008018, U35426, AL139054, AC005696, AC004678, AL109952, AF060568, AC005412, AL031597, AC006441, AC005305, AC000353, AL031848, AC006312, AC005089, Z93023, AC005740, AF091512, AL021394, AL050348, AP000962, AC005600, Z83844, U80017, AC006088, AL021578, AC005631, AL035405, AC006077, AC005620, AL031432, AF205588,

HCWER528	9119	685585	1 - 114	15 - 128	AC005081, AC007421, AC004675, U70065, AL031255, AC005520, AC006538, AC004009, AC005363, AL035684, Z81364, AC002504, AC004999, AC005837, AF088219, AP000693, AC000065, Z93930, AC006449, AC005476, AL132992, AL031587, AC004091, AC005747, and AC005618.
HCWER13	9120	586984	1 - 262	15 - 276	AA025970, H57826, H99934, AA303007, T50624, AA1719520, AA632744, AL042927, AL791156, AL866422, AA862218, AA017323, AA174016, AA330576, AA486896, AL035071, AL132987, AC004663, AP000346, Z95152, AL035701, AC005323, AC006597, AC002880, AL031311, AC004929, AL022324, AC003667, AC006023, AC003080, AF134726, Z99570, AC006501, AC005207, AC002543, AL121748, AP000695, AC006084, Z97056, AC007283, AC004991, AC007057, AC006064, AF205588, AL031255, AC004019, AC002369, AC012330, AC007263, AC005257, AL021546, AP000550, AL035467, AP000536, AC008018, AC004811, AL078477, AC005089, AC003663, AP000503, AC004522, Z83844, AC002425, AC007878, AC004496, AC007021, AC005829, AL031685, AC005041, AC007055, AC006080, AC005399, AC007536, AL034548, AC006449, AC003041, AC005735, AC005015, and U52112.
HCWER13	9120	586984	1 - 262	15 - 276	AL284640, AL046409, AL270117, AW274346, AL583283, AL7744826, AL05766, AL038705, AL1613280, AL037683, AA584167, AA581123, AL69436, AL7744826, AL05766, AA387604, AL345654, AL281881, AL801482, AL350211, AL696962, AL732764, AA384201, AW021583, AL732865, AW407578, AL720702, AL602047, AW265385, AL860013, AW245747, AL559705, AA579366, AW073470, AL039932, AA682912, AW062724, AA610493, AL282511, AA551503, AL722372, AL798473, AL039932, AA682912, AW062724, AA610493, AL282511, AA551503, AW406755, AL538852, AL046205, AA502720, AL751216, AA503600, AA658362, AL580250, AW087356, AA610688, AL307608, AL042853, AL134972, AL473943, AA482711, AW419262, AW020340, AW169151, AW438643, AA483223, AL133164, T41259, AL925579, AA846935, AL110770, AL431303, AW303196, AW274349, AA126035, AA515829, AL358229, AA580808, AL962050, F36273, AL254316, AA533303, AA351056, AA649642, AW408047, AL149478, AW301350, AW276827, AW327868, AA610783, AL048925, AL625244, AA578997, AA632755, AL162049, AL045053, AL929531, AL339850, AW103758, AA662225, AA483771, AW249224, AL564496, AL365988, AW029038, N66026, AA573543, AA834707, AL744188, AL358571, AA531372, AL247199, AL754658, AA826303, AL357823, AA749233, AL744188, AL358571, AL824562, AA577906, AL873852, AA478355, AA829223, AW273218, AL345157, AA568778, AW302903, AA908468, AL568678, AL338330, AW264957, AL808877, AL570261, AA492166, AA589699, AL477061, AL634384, AW166815, AL583612, AL963720, AA491831, AA4737318, AA548689, AL471543, AL041690, AA631507, AA837084, AW270345, AA713815, H71429, AL567674, AL291588, AA639326, AL120269, AL865905, AL119984, AA847952, AL038072, AL654525, AA679514, AA522942, AW148792, AA569471, AL801591, AA661921, D83989, U57009, I51997, X55925, U18391, X55927, U18394, U18395, X54176, X53550, U57005, X54179, X54181, U57008, X54178, U18398, X55929, X55933, AF077038, U67801, U57006, X75335,

HCWEQ61	9121	741989	1-473	15 - 487	<p>U04355, U18399, X54180, X55924, U18393, L47228, U18388, U67831, U67832, X54175, U18387, X55931, X55923, X55922, U18390, Z22650, AF015147, X55932, M13254, M37551, AF015151, AF015156, U67829, AF015149, AF015167, Z79422, AP000558, A39972, AF015160, AF015166, AC005280, U18392, U67229, X55926, U67221, AP001172, AF109907, AC009516, AC004858, U67231, AL021977, L35531, AL033521, AP000557, AC004712, AC002565, Z49816, AC002452, AL035695, AL121603, AL031123, U67217, AL021366, AC006511, X78901, AC003966, AF042090, AC004876, Z82190, AL050097, AL121825, X88791, AL008629, L49046, AC005484, X54177, X53549, AC006213, AL109984, AL096791, AF0868219, U6715158, U67827, L78810, AC005224, AL117694, AL030997, AL031005, U18396, AC006071, U67825, AC008039, AP004675, U11309, S43650, AC009411, AC004024, AC006466, AL050332, AC004383, AP000555, AL008709, AL049759, AC004263, S56773, AB023049, U57007, AP000020, AL022163, X55930, AC007848, AC002545, AL022322, AL049569, AL121653, U67227, L81648, AC006026, AL031594, AP000345, AC007324, AC010175, AC006449, AC006001, AC008101, AC007193, AP000556, AC006011, AL023882, AC006459, AC005081, AL121934, AF013099, AL035071, U18389, AC004526, AC005231, AC002470, AC003111, AC008079, AC004972, Z99716, AC005520, AC004592, AC004259, AL080250, AC005041, U90546, Z54146, AC003684, AC004600, AL035397, Z83826, U67826, U67826, AC002476, AC004814, U14701, U14695, U14694, AC003101, AC002300, AL035450, AL031733, Z81369, A251029, AC004453, AL121652, AF190465, AC004686, Z98200, AC006080, AC008012, AC008115, AF045555, AC005165, U67828, AC006077, AC004217, AC006479, AC006292, AC002347, Z95114, Z69666, AC007590, AC000066, AL008728, AF090940, AL022323, AL022302, AD000092, AC006277, AF029308, AC005387, AC005771, Z98046, AC008080, AP000359, AL121754, AC006430, L78833, AC003074, AC002549, AP000228, AC004895, AL049830, AF007296, AL079295, AC004832, AC005015, Z93016, AC005253, AL133448, AC005696, AL021393, AL049594, AC002350, AP000552, AF146367, AL034561, AC006464, AP000017, AL022328, AC004158, AC006111, AC004652, AC004988, Z99129, AL050347, AL008725, AC002542, AP000140, AC005529, AP000246, AC006333, AC005209, AC008126, and AL031662.</p> <p>AA010470, R10043, R53395, AA043595, AW172511, AL436714, AL362495, AW339340, A1858836, AW248102, and AC004230.</p>
HCWEH95	9122	795046	1-263	15 - 277	<p>N58676, AA317546, AW197056, AA782338, H53308, F02188, AA074252, AL118925, W23432, AL126252, AL275982, R89560, AA612578, H87756, AA297698, AA578621, T63057, AA730480, AA730035, AA237098, A932900, AA665475, AA747757, AL890327, AL270177, AW022891, F31575, AA613923, T90237, AA678950, AA825827, AA086360, AA407632, R67086, AL281770, AA653713, AL132915, AA604515, AA468056, AL679390, AL679898, AA551204, AL744830, AA467938, AA077194, AL912401, AW069527, AL160682, AA002262, W60406, AL683026, AA565691, AA564925, AA302763, D83882, AL358712, AL031846, AC002511, AC005074, AC005089, AC008249, U91319, AC003091, AL031657, AC007225, Z85987, AC007226,</p>

HCWDO74	9123	576471	1 - 194	15 - 208	AC003101, AC000393, AC005005, AC004158, AL034429, AC004865, AC005682, AC005632, AC005585, AC005318, AP000243, AP000126, AP000204, Z84483, AC005914, AC002470, AC004858, AP000692, AF109907, AP000253, AC004760, AC002044, L44140, AC001311, AL096703, AC004528, AL031276, AC005225, Z98941, Z68284, Z94801, Z68039, AL096766, AL133448, U95090, AP000565, U91326, AC007055, U80017, Z73417, AC003687, AL049653, AL022311, AL022316, AL133396, AP000135, AC007386, AC004998, Z95115, AP000031, AF196972, AL031431, AC005572, Z98743, Y10196, AC004263, AC004933, AL139165, AP000344, AC005911, AC005907, AL035659, AC004526, Z93023, AL049759, AL034423, AC006511, AC004257, AC010205, AC005881, AP246003, AL022721, U52112, AF047825, AP000121, AP000053, AP000168, AC005006, Z93241, Z83844, AC001231, AC008154, AC006965, AC002996, AP000564, AC005015, AL031685, AL117258, AC006111, D87675, U73167, U90094, AC001227, AC002101, AC002073, AL031732, Z98304, AL118497, AC004021, AL121658, AC010206, AC005562, AC002477, AC004996, AL031680, AC005875, U78027, AL031346, AL109613, AC007193, AC008126, AC004887, AL133382, AC004686, AC002544, Z29336, AB014085, AL035422, AL031681, AC012384, AC005793, AL096773, AC005187, AC005480, AC003081, AC002476, AF191217, AF073485, AF143315, AL035685, AF067844, AC004876, AL031577, AC004961, AL008726, AC005206, AC005921, AC004187, AC006006, AC005070, AC005358, AC002350, AC007731, AC005500, AC005328, AC005088, AL109865, AC002401, AC005667, AP000248, AC004805, AP000687, AC006271, AL035587, AC004655, AP000431, AL031407, AC008012, AL121652, AC005360, AL031284, AC004821, AC004776, AC005288, AC006539, AF196779, AC003042, AL008718, AL003147, AL020993, AC005412, and AC003072.
HCWDO74	9124	576470	1 - 204	15 - 218	AL023882, AC005837, Z99716, AC005046, and AC005277.
HCWDO26					AA363027, AW087537, AA629731, AL030959, AL031281, AC004382, AL031984, L34635, AL096677, AC004841, Z69733, AC003982, AC004448, AC005345, AC000393, AL049540, AC008044, AL049709, AL121782, AC006347, AL008726, AC008545, AC005800, AF111169, AL133500, U91326, and AC002544.
HCWDO181	9125	514607	1 - 387	15 - 401	AA769123, AA331715, and W92553.
HCWCR40	9126	711507	1 - 425	15 - 439	AA255688, N98246, N63895, AA262567, AW166611, AW131457, AL020666, AP000240, X59875, AC005793, AL122003, AL109627, AC004859, AC005008, AC004854, AC007325, AC002310, AP000355, AL034410, AC005924, AC000061, AC004508, AL033392, AC005574, AC004383, AL031427, AC004755, AC003957, AC007981, AC005014, AL121603, AL033397, AC010209, AP000552, AC005089, AP000201, AL034374, AL021453, AC002299, AL035587, AP000097, AC008018, AC008103, AC003664, AC005776, AC002091, AC005562, AL034420, AC004056, AL031186, AC004913, AF026069, AC000550, AC004686, AC006511, AL024498, AF207550, AC005971, AC007227, AL031003, L05367, U62317, AC005255, AL133353.
HCWCN11	9127	849959	1 - 882	15 - 896	

HCWCM08	9128	849958	1-328	15-342	AC004975, AL079339, AC016831, AC006211, AC007324, AL022316, and AP000703.
HCWCL46	9129	719244	1-486	15-500	AA235285, and AA811938.
HCWCL16	9130	411336	1-452	15-466	
HCWC185	9131	840121	1-376	15-390	
HCWCH85	9132	753191	1-390	15-404	AA812111, AW023111, AA502532, AA487272, AW265342, R95840, AW304580, AA938390, AL358712, AL290107, AA182731, H71678, F24745, AA502207, AL792439, T07922, AA501461, AA601278, AL610468, AA604843, AA070899, AL004576, AW237905, AA644090, AL635440, R66166, AW188742, AA515723, AW408756, N23913, AW243831, AA284247, AL701777, AA651632, AL729417, AA828834, AW022934, AL044340, AA297145, AW166920, AA356376, AA604865, AL687343, AL745116, AL096738, AA683069, R32162, AL049830, AC007386, AL031281, AC006014, AC004253, AC004890, AL009181, AC004520, U95090, U91326, AL139054, U67813, AC005488, AC005859, Z49866, AC004841, AC005581, AC005031, AL049569, AL035405, AC020663, AC007226, AC007536, AL049745, AL096702, AC005057, AL022476, AC002544, U80017, AC004605, AC003982, AC005911, AC006449, AL024498, AC006480, AP000053, AC005796, AC005730, Z93020, AC011422, AC005696, AC003101, AC004000, AL080243, Z83840, AL096801, AL031283, Z97630, AC005229, AC005841, AC006441, AC009247, AL132987, AC005187, AC005399, AC005839, U91318, AC002347, AC007151, AC003107, AP000558, AL133245, AL050321, AC008044, AL031311, AL096774, AF031078, AC005081, AC007216, AC004858, AL022165, AL019014, AL031311, AC007225, AC006141, AC006511, AC030876, AC005280, Z99716, AC006077, AC005736, AC009516, AL034417, AC004622, Z54334, AL023880, AP000344, Z96074, Z98742, U96629, AC005074, AC004531, AC005513, AP000459, AL229041, Z93023, AC005772, AL035457, AC002365, AC002425, U15177, AP000692, AL003147, AF196779, AC005846, AL031432, AL133246, AC005726, AL035555, AC003681, AC005527, AF111168, AL031295, Z85996, AC004893, AC005320, AC002404, AL035071, AC005914, AC004967, AC004659, AF051976, AC005256, Z95152, AC005531, AL022313, AC005632, AC005189, AC005500, AL031003, AL031680, AF006501, AC005741, AC004955, U95742, AC005690, AL121658, AF001552, AL096775, Z95114, AL022336, AC002039, AC005821, AL021707, AC005899, AC005291, AL133243, AC005971, U47924, AC004106, AC003029, AC005902, Z84474, U62293, AL121603, AC004815, AC005800, AL034553, AF117829, AF207550, AC002349, AC006612, AC005520, AL049872, AL049829, Z93244, AC002477, AC005041, AL078476, AC006061, AL022315, AC004650, AC004854, AC000085, AC002094, Z93017, AC005015, AC009542, AL079342, AC007326, AC008125, U67812, AL050317, AC002302, AC004797, U89337, AC006120, AL049869, AF073485, AC002312, AP000557, AC004476, AP000117, AC005837, AC004131, AC004922, AP000359, AL035659, AL031666, AC004448, AL031587, AC005338, AB023050, AL050318, AC000052, AC003110, AL096701, AC006088, AC005231, AP001051, Z85987,

					AC006001, AL049757, AC007242, Z83846, AC005529, AL031659, AC005590, AC002992, AC006512, AC005182, AC006057, AC006530, AC003689, AC007114, AL035090, US2668, AC004985, AC005004, AC002565, Z82173, AC004765, AC004408, AC007160, and AC002310.
HCW/CH11	9133	967666	1 - 310	15 - 324	AL021905, D44646, AW263123, T93266, and AA953383.
HCW/BM07	9134	954100	1 - 470	15 - 484	H56993, H70011, R12267, H57000, H69555, H56910, R1661, R16743, R09996, T77907, T77822, H56905, Z56468, and Z61918.
HCW/AN45	9135	728385	1 - 989	15 - 1003	AC006504.
HCW/AL53	9136	586997	1 - 288	15 - 302	AA635368, AA0481762, AL039309, F31811, AA381747, AA278496, AP000553, AL096791, Z94801, AC004283, AC000255, AC005387, AC005971, AL133245, AL109628, AP000135, M87909, Z98051, AC004821, AP000031, AC004257, AL132712, AL035405, AC004858, AC002400, AP000048, AC007308, AC007285, AC002470, AL080243, AL022163, AC005288, AC004596, AC002985, AL021578, Z97876, AC009516, AL035086, AL035413, AC006271, AL034420, U62293, AL034379, AF109907, AP000211, AP000133, AC005412, AC005808, AL049569, AL121603, AC004216, AC004222, AC006449, AC004854, AB015355, AL031846, AL020995, AL121655, AJ003147, AC006468, AC003104, AC005197, AF196969, AC007842, AC020663, AF111168, AC006111, AC004526, AC002369, AC005562, AL022223, AC006121, AL034429, AC006006, AF205588, AC005796, Z69705, AC000035, AC002119, AC009247, AC004929, L78833, AC005180, Z85986, AC007226, AL121825, AL033376, AL009181, Z69653, AL022313, AC007263, AC004754, AC007774, U91326, AP000505, AC005624, AC004983, Z83844, AC005701, AL031282, AC007225, AC005520, AP000503, AL008719, AF134726, U73636, AL139054, AC004000, AL022513, AC000003, AC005015, AL031427, AC005225, AC005529, Z82244, AC004874, AL031432, AC002310, AP001549, AC004967, AC004019, AC005102, AL031670, AP000512, U52112, AP000032, AC005222, AC005839, AL031985, AC005914, AC006077, AC004638, AC004478, AC005207, Z97054, AC002425, AC006285, U29953, AC005081, AL022336, AC005619, AC004814, AC000025, AC006210, AC005940, AL020997, U57007, AL031178, AL008735, AD000092, AL035448, AC004230, AC016025, AC000075, AC012384, AP000030, Z83840, Z92542, AC004228, AC006441, AC006026, AC005736, AC004690, AC004552, AF045555, AB023051, AC006605, AL022721, AC000247, AL121658, AL049694, AC006312, AL133448, AL034423, AB001523, AL031774, AP000023, AC005484, AC000052, AC006597, AF129756, AC005907, AC004991, AC005057, AC004253, Z98048, AC006001, AL049539, AC005694, AC007406, U95742, D87675, AC004531, AC004678, AC006581, AC007684, AC004771, Z93930, AC005089, AL050332, AL121653, AL034417, AL021154, AL078581, AC006023, AC005841, and AL022476.
HCW/AB85	9137	783392	1 - 299	15 - 313	AW268090, AA579278, AL031759, AA525156, AL1828721, AA847341, H79277, AL1570067, AL1567676, AA507623, AA460714, M77964, AA635150, AA309287, AA364147, AL245693, AL308529, AA468923, AL174827, AA878140, AA467740, H47461, A W028376, AW023975, AL003474, AA515727, AL170470, AA664963, AA661590, AW188742, H62123, AA578711,

				<p>H81012, A1376687, R79396, AA632869, AW303052, AA873661, AW020612, A1813920, A1003391, A1343808, A1884404, AA419107, AA419014, AW160469, AA086318, AA715173, AA715075, AW341878, A1251024, A1065031, A1805373, F24745, AA088842, A1049680, AA527633, AA809104, A1821945, A1536625, AA636077, T94116, A1923314, A728954, AA152398, H57741, A1246003, Z84474, AB001523, A1031255, A121658, AC006530, Z98200, AC004895, AF023268, AC004263, AL022336, AC005971, A1011930, AC004383, AC0020476, AC002996, AC005829, AC006077, AL024498, L44140, U91326, U52112, AC005666, Z93017, AL009179, AC007934, AL049839, AL049780, AC007055, AL035086, AC0031295, AC004686, AC006277, AC005914, AC002464, AC002398, AC005531, M26434, AC004000, AL031311, AC002073, AC002544, AC007371, AF005555, U96629, AL022165, AL002233, AF205588, AL035659, AC006084, Z98946, AC006468, AC003006, AL035587, AC006946, AC005821, AC004967, AL031594, AL049569, AC005365, AC004668, AC006071, AC004703, AC005527, AC003093, AC005005, AL133163, AC006014, Z85986, AC006381, AL078460, AC006953, AL034421, AL049743, AL022328, Z83846, AF165926, AL049759, AL033527, AL049694, AC004638, AC004783, AL080317, AB023048, AC004812, AC005488, AC002351, A1006345, AC004814, Z83840, AC005340, AL031587, AC006449, AC004825, AC005598, AC004816, AL031589, AC005231, AC005519, AF001550, AC005296, AL050318, Z97056, AL049829, AC005625, AL035420, AL109758, AC005695, AC005516, AC005225, AL121653, AL049757, AL022721, AC005841, AF015720, AF053356, U07563, AC006241, AL035658, AC004025, AC004659, A1003147, Z98884, AF000141, AL034423, AC005529, AL008582, AC006251, AC005412, AC005015, AC004671, AC002418, AC006538, AL031282, U91323, AC007066, AL080243, U91321, AC002400, AC006360, AC002331, AC007421, AC006312, AC005722, AP000514, U89337, AF109907, AP000704, AC006121, AC007324, AC005822, AC004386, AC006139, AC005089, AC005808, AL031670, A1229041, AF196779, AC005071, Z82181, AC004883, AC005288, AC005251, AC005726, Z97634, AC002984, AC007536, AL133448, AP000510, AL133246, AC005099, AL031284, Z84480, Z83843, AC005837, AC004019, AL035079, AC000388, AC004760, AC005300, Z99127, AC003098, AC007051, AL031178, AC004974, AC001527, AC000082, AF064861, Z98044, AC002477, AF007919, AL109802, AC005049, AC002991, AC004695, Z74739, AL022726, AP000365, AC005081, AC005828, AP000248, AC008079, AC005484, AC006146, AC004975, AC005920, AC005618, AC003025, AC009399, AC004754, AP000547, AC008372, AC005730, AC009516, AL034549, AF045555, AC006317, AL031431, AC003036, AL035422, Z84486, AC000032, AC004912, AL049872, AF196972, AC008041, AC005502, AC006026, AC005911, AC007384, AF000280, AP000289, AF001549, AC007686, and AC004673.</p>
HCWAB72	9138	766288	1 - 198	15 - 212

HCW/AB49 HCW/AB37	9139 9140	529659 575491	1 - 51 1 - 250	15 - 65 15 - 264	and AL021546.	
						AI053583, AW028950, AU082632, AT092539, AA320852, AA887406, AA373861, AA557493, AA513219, AA598605, AA551067, AU060423, AA513851, F30586, AT734837, AL452863, AB36771, AA715814, F35689, AA230025, AA468371, AA493789, AA24889, AA468505, AA378474, H86801, AL109984, AC005233, AC003684, AL031848, AC006450, AL031589, AC005089, AF024533, AC002395, AC007546, M63796, AC006948, AC009522, AF111168, AC000070, AC006388, AL022165, AL132987, AC007685, AL079340, AC005015, AC005527, AL008734, Z49236, AC005529, AC002544, AF205588, Z97055, AL034088, AC005015, AC005527, AP000500, AC002565, AC0066023, AC005512, AC004858, AC005057, AC005914, AC002398, Z93244, AL009179, AL031431, AC005793, AC000024, AL021918, AL049776, D87011, U91326, AF109907, AL096766, AC005229, Z98036, Z86061, AC005924, AC005520, AC004838, AL049694, AC005088, AC004651, AC005519, AC005399, AL031291, Z98742, AL031670, AC002303, AC005940, AC005484, AC005828, AC004526, AL121754, AC002511, AL117337, AC004659, AL109628, AC002470, AL109627, AL049766, AL022302, AF092859, AC006146, AL022311, AL021940, Z86063, AC004851, U62293, AC006441, AC005071, AC005880, Z86090, AC007227, AC006453, AC006079, AC006111, AC005218, AC004811, AC003108, AC005231, AC006011, AB013924, AC003667, Z93930, AC009275, AL022316, AC005081, AC006952, AC005004, AC007386, AC006211, AF196972, AC004777, AC004804, AL080243, AC002287, AL035587, AL132712, AF111170, AC005808, AC005076, Z97054, AC004525, AC006468, AR004690, U07561, AC004849, AL109798, AC009516, AC007376, AL022320, AC004770, AC004491, AC004771, AC004228, AC005632, AL031284, AC004106, Z97630, AL034449, Z83846, AL133163, AC005730, Z75407, AC009247, AC004890, AL049869, AC007151, U02051, AC004893, AL121603, AC004148, AC004765, AC005666, AC004883, AC004854, AL021393, AP000113, AE000660, AP001046, AC005625, AC005874, AF134471, AL031767, AC004938, AL050307, AC007283, AC008115, AC007566, AL135960, AL131016, AC004560, AL020997, AC006277, AL096761, AP000116, AC007030, AC008041, AC002997, AL031133, AL096791, AL022326, AT251973, AL035659, AL022312, Z98052, AC011311, AL034549, U61981, AC005306, AC004929, AC005772, AC008056, AF001552, AC003041, AC009721, AC004805, AC005871, AC007999, U07563, AC003025, AC006597, AL022322, AL121653, AC004881, AL021155, AL024498, and U89355.
						R95748, AA721645, T38440, F35097, H85057, R70333, AA152404, AA358623, AA227482, AA347232, AA857381, AA908431, AA836548, R33941, AA508873, AA318064, AA187338, AA713715, H86105, AW272606, AA664163, AA608729, N24473, AL5609363, AT754004, AA559219, H860603, H86095, AL873627, R22196, AA503468, AL476372, AA533176, R79396, AA975997, AA481887, N58464, AL491765, AL4648957, AC006449, AC005520, AP000496,
HCW/AB36	9141	529660	1 - 230	15 - 244		
HCW/AB35	9142	416968	1 - 209	15 - 223		

HCWAB25	9143	575270	1 - 151	15 - 165	<p>AC007099, Z95114, AC002477, AC007637, Z98742, AC005696, AL096678, Z98743, AL031657, AC006328, AC005193, AL022326, AC005225, AC007899, AL022315, AP000355, AL246003, U07000, Z98946, AL031229, AC005089, AC005377, AC005971, AL022328, AC005623, AL121658, AL031258, AC007845, Z98304, AL031428, AL022302, AC004408, AC004491, AC005969, AC006254, AL117258, AC006515, AL096774, AC016026, AC005519, AC005527, AL031597, AL121652, AP000212, AP000134, AP000354, AL031848, AL031668, AC004796, AL049694, AC006121, AC004605, Z84469, AC006277, AC008033, AL139054, AC004073, AC006454, AL050338, L44140, AP000502, AL109952, AC007666, AC007201, AP000688, U73023, AP000555, Z83996, Z84487, AC005747, AC005015, AP000010, AC005529, AF038458, AL031710, AC005412, AL137100, AC005257, AC007686, AL078477, M29929, AC005702, AC000159, AC004148, AL133245, AC004967, AL049653, Z93017, F134726, AC006946, AC004383, AC004851, AC005081, AC006317, AC006070, AC000251, AC005829, Z86061, AC006480, AC004878, AL035460, AC006241, AC006039, AC002389, AC005071, AC004024, AC004644, AC004686, AC006285, AC010170, AL031177, AL133500, AC005911, AP000557, AL035684, AC007226, Z95115, AC016025, AC007225, AL022334, AC006111, AL031284, AC005067, AL031650, AC005620, AC004228, AC006312, AL049872, AL022163, Z83838, AC002369, U47924, AC005102, AC006512, AL121603, AL049748, AC006552, AC006538, AF109907, AL034429, AC004821, AL080243, AC005229, AC006511, AC005736, AC007051, AC003029, AC006443, AC005778, AC006130, AC002126, AC007919, AC005004, AP001052, AC007298, AL133512, AP000030, AL021917, AC006211, AC007314, AC004386, Z98749, AC005954, AC005484, AC004217, AB023051, Z99943, AL022314, AL031289, AC004400, AL121754, AC004675, AC005300, AC006061, AC004955, AC002565, AL031767, AC008055, AL023799, AC005399, AC007279, Z98941, AC006127, AC006966, AC007488, AC004858, AC003108, AC005921, AC005914, AL109798, AL031730, AB017567, U82668, AL135744, AC002470, AC005358, AL133238, AF205588, AL049758, AC005746, AC004447, Z68284, L05367, AC003036, AL031291, AF088219, AC007151, AC002996, AL022312, AP000257, AF187320, AF196779, AC002400, AL031673, AC009248, AL020997, AC005594, AC005180, AC006077, AL034423, AC006160, AL121653, Z69917, AC004883, AC005839, AC003013, AL122023, AC007011, and Z98885.</p> <p>AA630672, AW148507, H18914, AL047429, AA640410, AA640430, AA127426, AL292257, AL537772, AL249473, AA838190, AL054354, AA720732, AA961035, AL251576, AA646942, AA283730, AA128511, AL630176, AA954924, AL040031, AL306232, AA324242, AL434695, AA018207, AA714011, H25921, AW103574, AA101689, AL341571, AA629872, AA507612, AL583466, AW303096, AW268291, AW724191, AL020801, AA504049, AA507187, AL783549, AA749235, AA574442, AL085867, H29511, T06598, AA661499, AA583394, H15652, AA993818, AA610509, AL0070345, AA535216, AL044940, AL002744, AA629540, AW439555, F15832, AL460009, AA554634, AP000012, AP000153, AC005578, U67820, AC000087, AC007536,</p>
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				AW136667.
			15 - 305	AA803869, AA665449, A1354847, AA621838, AA601376, AW021161, AA679532, AW022934, H73230, A1753488, AA443390, AC002477, AC004895, AD000092, AL021391, AC005529, AF195638, AC005015, D88268, AL023494, AL049780, U73647, AC005527, AL023807, AC005911, AL109738, U95742, AC005778, AP000512, AL021878, AC006530, AC007226, AC004953, U07563, AL096701, AC016025, AJ003147, AD001502, AC005725, AP000514, AP000009, AL133245, AC004638, AC005288, AC006285, AL121603, AC005399, AC005920, AC005618, AC005971, AC004655, Z95114, AP000553, Z95017, AL050348, AC007666, AL050341, AL121754, AC005180, AL034374, AC003077, U91326, AC007298, AL049748, AC001070, AL031680, AL022316, Z93023, AC006359, AL049636, AL133448, AC004491, AC004253, AL021807, AL008726, AL050308, AC005520, AL133312, AC007216, AC005081, AL031681, AC006042, AC005209, AL008582, AC005531, AL034420, AF001549, AC004024, U95740, AC005011, AL080243, AC007546, AC006312, AC005207, AL096775,
HCWAB23	9144	529664	1 - 291	15 - 305
HCVAC86	9145	785784	1 - 311	15 - 325

HCVAC80	9146	529688	1 - 302			AL034379, AC006509, and AC007536.
	9147	529687	1 - 352	15 - 316	15 - 366	AA935456, AW0004884, AW338179, AA223174, AI917134, H82265, AL049697, AC004000, AC005971, U78810, Z84480, AC002550, AC008372, AC005071, AP000500, and AL022336.
HCVAC72	9148	529693	1 - 247	15 - 261		AL008583.
	9149	507284	1 - 801	15 - 815		AA196390, AA196468, AA507837, AL537538, AA845293, AD51037, AL500454, AL038936, F27015, AL466001, F23315, A4772016, AB82634, AD54525, A744949, AL080005, AL064938, AA229444, AW157005, AC001228, AC005996, AC005210, AC007436, AL003147, AC005399, AC005725, AC006486, AP000038, AP000106, AL031255, AC005324, AC005359, AL022163, AL049569, AL009179, AL031685, AL021938, AL121653, AC007792, AC0012083, AC007066, AC006544, Z93017, AC005412, AL035587, AL008715, AC007344, AC002369, AC003029, AC005536, AP000210, AP000132, AL035443, AL133245, AC005531, AC005914, AC004087, AL033392, AL031774, AL031846, AC004000, AL096767, AF091512, AL031055, AC006111, AC005722, Z95116, Z74739, AL049829, AC004209, AL109628, AL096701, U53930, AC005954, AC005696, AC005529, AC008033, AL034417, AC004019, AL034420, AC002663, AC003964, AC004918, AC002994, AC000052, AC005988, AC005089, AC004922, AP001042, AC002996, AC005081, AC005911, AL132712, AC005823, AP000248, AF205588, AL109984, AP000045, AC004921, AC006063, AC004794, AP000503, AC007899, AC005237, AC000003, AL133246, AC004652, AC005520, AC005822, AF134726, AC004986, AC005763, AC000353, AC006512, AP000556, U85196, AC004797, and AC005406.
HCVAC58	9150	575510	1 - 337	15 - 351		AA292581, AA478127, AA978079, AA504702, W31736, AA636102, AA075369, AI927261, AA678950, AA298192, N22153, AW407632, A W073498, AI929410, AI753672, AA469441, AI750950, AA745302, AW057873, AA578621, AA847427, AA847508, AA662615, T03678, AI921619, Z98474, AA708651, R17935, AA076130, AA743299, N55076, H65911, AA467774, AA196412, Z98475, AI932871, AA834686, AA491985, AA748102, AI799421, AA282951, T59438, AA250776, AA856817, AA8980, AI348467, AA302763, AA115865, AA486867, AA363957, N30016, AI569700, AA507993, AA524821, AI924954, AI908424, T86603, R33995, AI251024, AA065155, AA247477, AI453160, AI564294, AC007671, D83737, AC006962, AC006037, AC003013, Z96776, AC004611, Z99127, AC005663, AF155238, Z83840, AL049709, AC005664, U82671, AC007358, AL035405, AC006547, AL031659, AI121757, AC004825, Z79998, M33132, AC004185, AC006047, AL078611, AC000091, AC004656, AL049612, AC004992, AC004100, AP0000509, Z98036, AC005552, AC006004, AC005081, AC002365, AC009294, D84394, Z69366, AP000228, AP000140, AP000088, AC006479, AF147446, AC005775, AC004666, AD000092, AF078847, AL133245, Z80999, AC005765, AC004257, AL031186, Z82243, AL049714, AL031732, AL021453, AL049698, AC007199, AL050321, AC002119, AL049843, AC003025, AL031276, AL031685, AL031291, AC003982, AL034402, AC004518, AC004876, AC007283, AF165138, Z95115, AC004540, Z94277, AC004967.

HCVAC47	9151	861969	1 - 326	15 - 340	AC007666, AF139813, AL022724, AC004990, AL133371, AC005837, AC002094, AC007371, AC010206, AL022328, AC004158, AC009263, AL022323, AF196779, AC005358, AC004770, AL049780, AC004228, AC007055, AC000134, AC006312, AC005529, AC004962, Z83847, AC002550, AL078601, Z95152, Z98946, AC004821, AC006088, AC002546, U43572, X54486, M84472, AC004644, U34879, Y07848, AC005031, AF222885, AC005067, AL109657, AC005231, AL049757, Z93017, AF064859, AL080250, AC000026, AC004999, U80017, AC004883, AC007285, AL031311, AL034548, AC006197, AL034549, AL022164, AL021918, AC007688, AC002350, AL049553, AC007376, AF011889, AB011399, AC005261, Z75407, AC007688, AL050337, AC004477, AC007011, AF001552, AC004223, U85195, AE000658, AC004622, Z68884, AC007191, AC004241, AL049697, Z99943, AC002470, M22970, A64529, A64510, A64531, M29930, and D85429.
HCVAC48	9152	861969	1 - 326	15 - 340	AW138257, and R52839.
HCVAC49	9153	861969	1 - 326	15 - 340	AW364634, AL158320, AL046752, AF06515, and U91543.
HCVAC50	9154	861969	1 - 326	15 - 340	
HCVAC51	9155	861969	1 - 326	15 - 340	
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HCUHS21	9171	670988	1 - 488	15 - 502	T83209, and AL031985.
HCUHO27	9172	690027	1 - 485	15 - 499	AW182457, AB02795, AA441989, AA974771, AA031704, AA976534, AA152220, AA045294, AA731356, AW292805, AW148422, AA810540, AL000594, AL050589, AA458862, AW052091, AB24266, AL002809, AA716336, AA448335, AL278475, AL769897, AA461046, AL037309, AA974453, AL047422, AA49267, AA056888, AW195361, AL735273, AL691016, AW05187, AL740946, AA160279, AL00257, AW272744, AA099553, AL597746, AL239461, AL199994, H93009, AW057152, AA088175, AL128201, H64964, AL824017, AL069923, AA045521, AL278932, AA582895, AA709030, AL361585, AL261533, AL373386, AL263085, AL671224, AL00367, R97096, AL628787, AW271301, AL149430, AA040431, AL707638, AL161128, AL091306, AA035209, AL758904, AA182884, AA411404, AA576365, N59386, AL741604, AL880867, F20467, H13276, AA502528, T96890, T97469, AA713812, AL933321, N47960, AA736644, AA502505, N49171, and AA502417.
HCUHO13	9173	879921	1 - 1057	15 - 1071	AC003071, AC004462, L77570, AL049795, AC004508, AC006543, AC003043, AC008115, and AC006544.
HCUHK11	9174	967142	1 - 423	15 - 437	AL207952, AA653238, AC003119, and U91325.

HCUIH95	9175	941943	1 - 2159	15 - 2173	
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HCUGH04	9176	927500	1 - 617	15 - 631	AC004543, AC004009, AL031587, AC004910, AC005480, AC005046, Z98048, AC005291, AL035249, AP001052, AP000096, AC005206, AC006121, AL096763, AL121658, AF001552, AC007151, AC002477, AC004816, AP001444, AC007371, AC000353, AF042089, AC004659, AC005164, AC005569, AC006211, Z49918, AC005011, AC007917, AC005670, AC002544, AC005003, AL033517, AC005632, AC006011, AC004000, and AC005667.
HCUGH67	9177	751673	1 - 746	15 - 760	AA234116, AW206772, AA234502, AW070295, AD74150, AA988179, AA729722, AA935521, AI82892, AA760987, AA989246, Z25141, AA728768, and AA812549.
HCUGT86	9178	784694	1 - 308	15 - 322	AI073478, AI247707, H54558, AI475033, AI084526, and AA861990.
HCUGS67	9179	751669	1 - 436	15 - 450	AA056567.
HCUGO07	9180	953412	1 - 305	15 - 319	AI719906, AA640632, and AI961282.
HCUGN19	9181	716989	1 - 584	15 - 598	R83518, H01355, R83503, AA204689, AI990886, AI660160, H45024, AI800806, AI969915, AI927423, AI457940, AI744631, AI928256, AI380503, AI867197, AW237763, AI800708, AI588959, AI765531, AW300271, AI830241, AI762594, AA828477, AW058189, AI871379, AI740633, AW301155, AA937166, AW316942, H44971, AA804639, AA53256, AW071230, R31122, R65687, H01309, H28671, AI829069, AA767789, AA953355, AW138552, AI870155, AI092045, and AA207090.
HCUGM03	9182	792329	1 - 313	15 - 327	N71632, AA826313, and AL034553.
HCUGM64	9183	745853	1 - 316	15 - 330	AA027349.
HCUGL20	9184	668913	1 - 445	15 - 459	R93212.
HCUGL01	9185	916550	1 - 150	15 - 164	AA835450, and AC006947.
HCUGK86	9186	785517	1 - 363	15 - 377	N88518, AA095359, AA096066, N84718, N83993, AA247827, N84048, N87989, N83168, AA247964, N84828, AF039698, U48696, and S78798.
HCUGK85	9187	783521	1 - 317	15 - 331	W92485, R92971, AA715876, AA063420, AC000988, AC005089, Z83846, AF001549, AD001527, AC005632, AL133163, AC016830, AC003982, AC003663, AC003072, AC005736, AC005291, AL021917, AC016027, AC005529, AC005225, AC004821, AC004890, AL035405, AL121653, AP000501, AL031295, AF047825, AP000211, AC004797, AC004806, AC007308, Z93020, AL022721, AL096703, AC003043, AL031588, Z98742, AC005527, AC004491, AC005412, AC007421, AC005722, AC007637, AL031733, AL049869, AC005921, AL139054, AP000240, AC004019, AL035587, AC008101, AL021707, Z99716, AC006285, AC006480, AC003003, AL133245, AL035665, AL117352, AL031281, AC005484, AC006115, AC008372, AC005520, AC005317, AC005519, AC004033, AC007686, AC005828, AC007227, and Z74739.
HCUGK78	9188	773601	1 - 215	15 - 229	AA493894, AI566408, AI124664, AA581263, AW084246, AA706291, AL037771, AA601376, AI369580, R10475, AI064918, AA85372, AA372949, AI591375, AW339622, AA736695, F08248, AI053911, AL040054, AA618452, F35374, AA557579, AI821608, AA069473,

					AA610413, AA468244, AA601674, AI962030, AW082117, AI306340, AI635245, FI8070, AA831916, AA654661, AA653672, AA555241, AW274078, AA225406, AA569219, AA721645, AA191418, FI2561, AI554471, AW440305, AI138455, AI036334, AA225358, HI91926, H29511, AI925579, AI343144, AI287706, H82679, AA502991, AI284127, FI3808, AW807294, AA807845, AA579407, AI119737, AA663201, AI814739, AA610381, AI343143, AI031657, AI035071, Z84469, AC004678, AC005907, AC006537, Z82203, AC004878, AC008629, AC007387, AF196779, AI022323, AI031229, AC005378, AI021155, U91323, AF001549, U62293, AI022238, AP000152, AI078581, AC005057, AC006132, AP003305, AC004814, AF129756, AC006312, AC005363, AI022165, AC005011, U80017, AI132987, AI135744, U18271, AF124730, Z93023, AP000011, AC002990, AC005790, Z84480, AI022302, AC002565, AC005088, AC008115, AP000691, AI049692, AI035249, AF134726, AC004234, AC000066, AI022315, AI035659, Z98036, AC005360, AI133163, AC005071, AC005004, AC007226, AC006947, AI023879, AC004812, AP000047, AC007216, AC005086, AC005003, AC004876, AC005620, AC016025, AI022322, U95742, AI133448, AC006160, AI031228, AC005409, AC007546, AC007917, AC007390, AC005988, AI133371, AI031286, Z93017, U63721, AC002314, AI010770, AC005513, AC002126, AC005231, AC005519, AC007685, AI035697, Z85986, AC000354, AI121655, AI049872, AC000353, AI035703, AC004686, AC005291, AI022313, AP000260, AC004584, AC003691, AC012085, AI049776, AI022320, AF109907, AC005365, Z84487, AC005207, AI109627, AC006450, AC004509, AC006543, AI121754, AC006509, AI078463, AC005484, AC004702, X69951, AC006071, AI009181, AI021917, AC005531, AC004883, AI032822, AI080243, AC005078, AC008372, AC004787, AC002551, AC003029, AI049795, AC006285, M30688, AC006480, Z95114, AC004662, AC006111, AI031985, AC004156, AI001527, AC008055, AC005081, AC004643, AP000115, AC005091, AI049733, AI031055, AC006388, AC011311, Z82190, AC002984, L78833, AC005972, AC005619, AF200465, AC006449, AC007999, AI050318, AC005839, U95740, AC005288, AC005736, AC004765, AC004522, AC004087, U47924, AI021154, AF217403, AC005778, AC004913, AP000116, Z93244, AP000036, AC006985, AC002425, AI035079, AI096701, AI022326, Z69917, AC005899, AC005668, AC006544, AP000065, AI034379, AC006571, AC005486, AI111168, AI035683, AP000962, AP000310, AC007199, AC006511, AI022721, AI034429, AC005600, AC007536, AC006064, AC002082, AC005043, AC004848, Z95116, AC005940, AI021546, AI049694, AC004796, AI034420, AC002477, AI121595, AC004975, AI035420, Z93783, AC005914, AC006538, AC008067, AI096791, AI035405, AC006210, AC007688, AC006137, AC005751, AC005823, AI035089, AI003147, AI022336, AP000563, U50537, AI031311, AC005512, AC007114, AC005015, AC004125, L30117, AC010206, AI049869, AC004547, AI031282, AC004966, U52112, AC007488, AC004560, AC004236, AC005933, AC005913, and AC004531.
HCU9K64	9189	746604	1 - 205	15 - 219	FI7020, TD7724, AI955960, T58224, HT2947, H59429, AC006277, AF001550, AI021808,

					AL031670, AC005231, AC005484, AC016025, AL022238, AC006530, AL021026, AF165926, AC004821, AC005527, AC005520, AL035086, AC000082, AC008928, AC002476, AC005529, AL031311, AL008725, AF000694, AL049759, Z81364, AL035604, AL109963, AL035684, Z83826, AC002375, AF196971, Z93930, AP000030, AL109952, AL035681, AC005102, AC007358, AC005483, AC005502, AC005696, AF134726, AC006101, AC005523, AC001939, AC002470, AL034549, AC007011, AF196969, AL121754, AC005324, AC005563, AC006146, AL049795, AF196779, AL022316, AC000025, AL049643, Z93017, AC005516, AC007842, AL049543, AC007227, AL008629, AC007308, AF064857, AP000501, AL022323, AL133163, U91323, L78833, AL049569, AL002272, AC004185, Z82976, AC006047, AL080243, AL121653, Z95114, AC007066, U91318, Z93241, AL035422, AL024507, AC005993, AC005914, AC002477, AL022327, AC004876, AC007676, and AP000466.
HCUGK54	9190	730709	1 - 118	15 - 132	AA484273, AA484304, AW338783, AL171478, H49471, AA650075, AF126483, AE000661, AP001052, Z84469, Z82248, AL035420, Y10826, AL132987, AC006111, AP000099, Z83822, AC002546, AP000036, Z82976, AC006026, AL080243, AL023575, AC003665, AC008040, Z68279, AF001549, AC002098, AC007685, AC002551, Z94044, AC005005, Z83838, AL021578, L44140, AC006344, AC003684, AP000260, and AC005273.
HCUGK51	9191	725013	1 - 307	15 - 321	AA658862, AL249473, AA629872, AW130335, AL047429, AL062322, AW274191, AA653854, AA831903, AL583466, AL251576, AL829831, AL911671, AL583252, AL188390, AA736557, AL307201, AL278678, AL570829, AL334818, AA872491, AA626432, AW084445, AW304580, AL635819, AL338386, AA613624, AA653139, AA224889, AA502991, AL890324, AL708009, AL358089, AA354822, N24133, AA715706, AL609972, AA814622, AA829036, AL612142, N33763, AL164684, AL623764, AA720732, AA776032, AW438539, AA167527, AA395661, F11718, N24793, U57009, U18398, AC004983, M87914, AL109798, S42653, U02532, AP000211, AP000133, AC002063, AF095901, Z82215, AC006285, AC005332, AC003041, AC005901, AL003147, AC007731, AC006013, AC000070, AL109865, Z98051, AP000517, AC016025, AP000691, Z69706, AC005500, AC006077, AL031311, AC004702, AC007536, AC006509, AC006511, AL020993, AL109801, AL031295, AL049766, AC004491, AC006441, AB015355, AC005180, AC002352, AC007384, AC005914, AC002301, U50537, AC005231, U95742, AC004235, AC007216, AC002430, AC005696, AC007685, X53548, AC005225, M30688, AC005899, AF031078, Z82244, AP000555, AC004821, AC005387, AC007308, AC000052, AC005531, AC005067, AC003109, AC007136, AL035659, AC007066, Z97053, AC004000, AC005257, AL049872, AL035467, AC005190, AL023807, AC005399, Z82976, AC005720, AC005274, Z97876, AC003815, AC002425, AF053356, AL008732, AL035086, AL035450, AC006449, AC004020, D49558, AD000864, AJ011713, AP000432, AL031291, AL034429, AF015148, Z68756, AL022302, AF030876, AC002316, AC004234, Z82217, AC004583, AL035685, AL049758, AL031283, AL049576, AL096774, Z93020, U73024, AF001549, AP000558, U95740, AC005378, AC005355, AC005377, AC005746, AP000359, AL021453,

HCUGK38	9192	706479	1 - 160	15 - 174	AC004408, AC007263, AC005212, AL031680, AL121655, AL031673, AC003029, AF039906, AC007537, AL008630, AF015149, AL133163, AC002347, AC002476, AL133245, AC009247, AC005102, AC004477, AL021878, AC007666, AC005512, AC007201, M63543, AL031005, AL022163, AC005808, U55184, AC003663, AC004019, M87923, U73638, AC006515, AC005529, Z93017, AC000041, AC005081, AL121653, Z84469, AC002091, AL021603, AC004534, AC004858, U47924, AC006530, Z83844, AL031282, AP000692, AL021154, Z85986, AL022721, AC000025, Z46936, AL034379, AC002470, AL096791, AC004797, AC005796, AF000155, AL023575, AC004832, AL035413, AC006115, AC004805, and AF0108719.
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HCUGK25	9193	678130	1 - 152	15 - 166	AA661921, AL043289, AA401240, AL133297, AA613591, N71746, AA404287, AA482711, AL174766, AA063173, AW275510, AW301995, AW303002, AA834707, AA702729, AA747070, AL284640, H23653, AL345366, AL310873, AL042753, F56306, T25806, AL036037, AW075511, H71429, AA129746, AW268757, AL101689, AL368745, AA493695, AW084466, AW021735, AL821494, AL038606, AL037683, AL064952, AA483929, AL349817, AL805363, AL963720, AA809479, AL135377, AW023990, AA455670, AL583283, AL270117, AA513893, AA127426, AA618452, AW268954, AW270343, AA493975, AL345157, AL138455, AA490183, AA299189, AA669155, AW021597, H42271, AA630672, AW021207, AA584805, AA460247, AL345827, AL818231, AA047715, AL254654, AA579179, AA847499, AL027459, AL821918, AL045808, AL046156, AA758366, AL687343, AL821881, AA984801, AA757775, AL046746, AC005740, AL022721, AB023798, Z94801, L34079, Z83844, AL67988, AL133448, AL078581, AL035587, AC005778, AC007382, AC008044, AL121603, AL022329, AL096701, AC004030, AF111168, AL010770, AC004195, AP001052, AC008080, L44140, AC005261, Z83845, AC002470, AF205588, AC005548, AL109758, AC004623, AC004883, D87008, AF114156, AF111167, X06123, AC006112, AF039906, AL003147, AL021977, AC003957, AC007193, AC004881, AL021155, AC004865, AL135744, AC002070, AL049871, AL022323, AL031670, Z82198, AC005696, AL133241, AC002527, AC002425, AC005234, AC006466, D88268, X68090, AC005280, AL117355, AC006581, AL121654, AL008726, D83989, AC005164, AC002455, AC007308, AC005971, AL049552, AC000003, AL031295, AC020663, AF126531, AC004890, AC007051, AC005907, AL049825, AC009516, AC004150, AC002350, X61109, AC005776, AC003070, AC005567, AF129756, AB020865, U67229, AF000555, AC002073, AL033543,

AL049699, AC006455, AC005988, AC005094, AC005940, AP000114, AP000046, AC002549, AC005257, AL132712, AC003663, AL136295, AL035448, AF038458, AC006130, AL008716, Z98742, AC004033, AC002300, AC009233, X54175, AC005288, AC004884, AC0002301, AL034420, AC009464, AC004841, AC005759, AC005081, AP000356, AC002563, AP000959, AL031178, AC007919, X54178, AL031685, AC004675, AC005203, AL023575, AC004098, AL031668, X55929, AP001602, AP000696, AC002559, AC003007, AL139054, AC005255, AL049872, AC005089, AL132992, AP000503, AF134726, Z86090, AF088035, AB026898, AF024533, AL132800, AL031276, Z96074, AC005071, AC005200, Z85996, AL109627, X67330, AF088219, AC003972, AC006071, AL031281, AL050332, AC005829, AC002395, S43630, AC004832, AP000117, AC007011, AC005529, AC004993, AP000159, AP000177, Z92845, AL021877, AL049779, AC008038, AL109628, AC007100, Z85986, AC005703, AC004985, AC005409, AC005602, AL022163, AC007536, U91323, AC000052, AC002400, AL049691, AC007201, AC005500, AC002429, AL049712, AC002091, U18394, AP000501, AC004686, AC007565, AL096791, AC007225, AP000365, AC005330, AC005375, Z82190, AL121655, AL133163, AC005488, U18391, AC006312, X54177, AL022724, AC004885, AP000240, Z98941, Z69719, AL031283, AC002126, AP000499, AC005209, X54181, AL034423, AC006014, AC005527, AC004633, AC006115, Z98744, and X55926.					
Z82206.				15 - 299	
AA167506, AA745302, AC005102, AC004851, AC004491, AC006449, AL031848, Z98884, AC005005, AC005412, AL121754, and AL035458.				15 - 310	
AW044407.				15 - 283	
AW409621, AW409626, AC006123, AL022396, AC007536, AP000557, AC005736, AC003104, AC002132, AC004955, AL008582, AC004797, AP000556, AF006752, AC007386, AC005280, and Z82901.				15 - 217	
AL1345695, AW236342, AA704561, R13151, AL061313, AA745653, AW440976, AW338508, AL633168, AA838140, AA281461, AL246796, AW157005, AL028510, AA134669, AL291124, AL291268, AL537030, AA0992126, AL302994, T07287, T16427, AA182569, AA772016, AL1354243, AA262139, AA570632, AA179752, AA100540, AL473851, AW105737, AA284184, AA189069, W47444, T75029, F37052, AA657835, AL341548, F23327, AL088717, AW380074, AA747889, AA743811, AL135405, AL051037, AA528725, F19012, AC006480, AC005531, AL021977, AC005280, AC005102, AL021154, AC005046, AC005839, AL132777, AC004099, AL031577, AL096791, AF205588, AC002059, AL109984, AC004953, AC006132, AC016027, AC005821, AF038458, AL121655, AC004447, AC004638, AF196970, AL025553, AC016830, AL049743, AC004019, AC005785, AL031597, AL049869, AC005015, AC005412, AC004750, AC007193, AC007666, AL022336, Z84487, AF196779, AF109907, AC000070, AC006211, AL035249, AC005225, Z98036, AC005081, AL031311, AL022311, AL008723, AC005519, L44140, AC004134, AC007878, AC000052, AC007055, AF207550, AL021397,				15 - 361	

HCUGH79	9199	775206	1 - 265	15 - 279	Z75744, AC000026, Z83840, AC004854, AL049712, AC009516, AL050318, AL121653, AC004477, AC006505, Z83826, AC005330, AP000046, AP000114, AC002045, AC003982, AC006026, AC006251, AF001548, AC006312, AC003101, AC002314, AC003007, AF053356, AC007041, AC004856, AL021453, AC006345, AC006449, AC005914, AP000513, Z95114, AL117258, AC005940, AP000512, AC006001, AL109758, AC002097, AC004067, AC002312, AC005261, AL035659, AC004616, Z83844, AC005288, AC004150, AL022721, AL034420, AC006270, AL078593, AL031594, AC008101, AC004492, AC004167, AC004605, AL007676, AC007384, AC002565, AF111168, AC004032, AC004955, AL246003, AC007358, AF190465, Z83822, AC002994, AC007934, AC004526, AC006571, AP000036, Z97542, AC004596, Z94044, AC004841, AC006930, AL110114, AC004382, AL009181, AC006050, AL133485, AC005520, AC002350, U07000, AC004805, AL021155, AP000952, AC005088, AP000193, AP000045, AP000113, AC006014, AC002544, AL021546, U91321, AC004821, AF111169, AC007192, AC004967, Z82244, AC005924, U91326, AC005324, AL049776, AP000350, AC004125, AC004797, Z99716, U95742, AC005920, AL096073, AC004883, AC004236, AL078596, AF045555, AL034548, AC007726, AC005666, AP000503, AC002091, AC006064, AB023054, AC007450, Z68756, AC005071, AC007191, AL049653, AC006538, AL096701, AC005488, AC00379, AC005484, AL021937, AC005944, AC007011, AC007664, AF064861, D87675, AC004662, Z84469, AP000305, AL022320, AC005089, AC002472, AC003104, AL049569, AB003151, AC005837, AL121825, AC007395, AF001549, AL133245, AC005696, AL022476, M035067, AL049780, AC009399, AC000003, AC006057, AC007993, AC003684, AC005331, M63543, AC007151, AC004922, AL121754, AC005200, AC004151, AC005480, AC005355, AL034343, AC006948, AL049830, AC003973, AL031295, AL022315, AL008718, AL121769, AL049745, AC004966, Z98743, and AC007637.
	9200	746600	1 - 198	15 - 212	AF111168, and AC002527.
HCUGH64	9201	726052	1 - 268	15 - 282	AA287351, AA501902, AL669116, AL085242, AC004596, Z84484, AC004257, AC004876, AC007263, AC008134, AC005736, AC004598, AL023553, AC013256, AL008730, AC002312, AP000499, Z98044, Z93023, AC002470, Z98884, AC006285, AF205588, AL031589, AL132987, AL049540, AC004963, AC005041, AL022316, AC007845, AC016025, AC006539, AB026898, AC004938, AC005323, AC005565, AC006487, AC004087, AL121655, AC016026, AL034549, AC005231, AC006511, AL031733, AD000812, U65487, AC004922, AC002126, AC002352, AC005015, AL022722, M23282, and AC006064.
	9202	716624	1 - 46	15 - 60	H85104.
HCUGH52	9201	726052	1 - 268	15 - 282	AL121385, AW118338, AL039145, AW089101, AW263724, AL474221, AL135357, AW087356, AA303007, AA504818, AA774222, AA761028, AL124610, T60156, H04977, AL040653, R95139, AL630176, AA847952, AL046519, AL746089, N73872, AA843628, AA834665, R34062, AL333016, AL038072, AF112484, AP000276, AP000275, AP000105, AP000037,
	9202	716624	1 - 46	15 - 60	

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HCUH42	9203	713782	1 - 304	15 - 318	AA084609, AA489390, AB01563, N27340, AL049999, AL061313, AA502991, N38991, AA199578, AL267356, AL267450, AA693484, AA778580, AL590404, AL749823, AA846923, AL285651, N27737, AA679794, H62123, AL355246, AA570740, AA483606, AL678468, AC003071, AC007686, AC004851, AF207550, AC000025, AL049694, AC004024, AL021707, AL031255, AL022336, AC005736, AC006125, AC004408, AC002477, AC006211, AC002126, AL035422, AC005519, AC005911, AC004099, AC005081, AC007201, AL049766, U78027, Z93783, AC006441, AC006450, AL109984, AC020663, AL021453, AC004531, AC000553, AC005233, AC004098, AC005527, AC002565, AC005013, AC007687, AL031291, AL033327, AP000558, AC005839, AL049795, U91376, AC006050, AC007842, AC006449, AC005779, AC004962, AC005594, AC005207, AC005280, AC003553, AC016830, AC004686, AC009247,

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HCUGD30	9204	850041	1 - 450	15 - 464	AC0043882, AA243875, AA604094, T96337, and T93503.
HCUGC25	9205	464029	1 - 431	15 - 445	F33795, N44137, H57810, AL143242, W79504, AA720702, AL262909, AL364020, AL937850, AL537955, T06828, R07780, AA720758, AA578997, AA347368, AW088058, AL346955, AL364809, AA862173, AA661948, AA665021, AW276435, F03525, AL282336, AL357551, AL446464, F10924, F16274, F18638, AL053790, AA665330, AA405453, T40077, AL502720, AA837740, AA626404, N64279, AA744031, AF150152, AW276586, AL623898, AL266133, AA503119, AL038705, W47183, AA340747, AL583594, AW008317, AA773733, R94721, AA338486, AA367986, AL500167, AW406447, AL798266, AL138265, AL38268, AA649642, AA513972, AL281903, AL133164, AL284640, AW072923, AL048925, AA483731, AL973803, AW41962, AA330575, AL270248, AW021583, AA451612, AA583955, AA4841788, AA856848, F17891, AW250970, AA579736, AW079101, AL021541, AL697208, AA350859, AA610491, AA729721, AL281881, AA599920, AW193432, AL924251, AW193265, AL068884, AA480772, AL471481, AA548511, AA347034, AA343007, AL061334, AL119984, AA837351, AA551356, AW340844, AA806796, AL499938, AW151727, H95681, AL350211, AA747777, AA568778, AW265393, AL270117, AA825357, AA649705, AA648022, AA664015, N92703, AW072587, AA576336, AA708352, AL344844, AL053672, AA828042, AA584637, AW008450,

AA635105, AA804962, AL002834, AA572975, AA683258, AA189117, AA302963, H93144, AI352078, AI434311, AA781010, AA587256, AI824562, AA702614, AA771811, AA587604, AA719805, AI708009, AA570227, AI191227, AA569387, H96730, T07451, AA714453, AA653957, AI133986, AI126777, AA810370, AW023270, AA356573, AI137954, AA526779, AA829223, AI364429, AA368936, H13757, AA084725, AW303196, AW38643, AW273218, AI301700, AW274349, AA856954, AW191756, AA471084, AA934680, AA908357, AI358343, T06556, AI355206, AA584790, AI003751, AI888365, AA577906, AA668578, AA533725, AI633905, AA466557, N68051, F04478, AA503154, AI358431, AA640900, AL038474, AA523838, AA523837, AW301350, AL044940, AI254338, AI354426, AI219406, AI002820, T41124, H64548, AA804379, AA502866, AI903462, AA469460, AA650450, AA581903, AA352803, AI246119, L47228, AC005157, AI031427, U91326, AC005544, AC003681, AP000010, AJ006345, AC006479, AL080242, AC004925, AC006079, AC002350, AF161343, AC000377, AC000004, AL008725, Z82214, AC002429, AC004075, AC007486, AC002412, AC005060, AL0078613, AC004448, AF039590, AC016025, AC004808, AC006023, AC006006, AL096791, AC004890, AC004002, AL110502, AL031229, AC007748, AC004526, U91322, AC006285, AP000080, AC008012, AC007240, AL133500, AC007437, AL022165, AI031431, AL121603, AF017104, AL121852, AC006487, U67827, Z98752, AC002067, AJ246003, AC002289, AC004738, AC002465, AL022329, AL049643, AC005220, AC004916, AL035079, AC003029, AC000118, U18398, AL078621, AC009516, AF027390, AC006966, AC006207, AC005703, AC004522, AL022320, AC005191, AL035424, AC006313, AL009174, AC002407, AC005288, AC005243, AF067844, AC007488, AC002563, AC005972, AL121658, AL031054, AC000025, AC004844, AC005527, AC003693, AC005011, D83989, U57009, X54181, X54178, U57005, X54176, I51997, AC004158, X73335, AP0000356, Z97635, AC009223, AC008151, AC004895, AC005023, AL022723, AC004933, AC005412, AE000659, AP000855, AI049759, AF11167, AC007406, AC002544, AC005901, AC008268, AL049779, AC002449, Z84469, AL035458, AC002303, AC004865, AI109853, AL022316, AP000160, Z68289, AC002432, AC007510, X54175, AI251973, AC003670, AC005899, AC006252, AC000085, U04355, AP000553, AF070718, AB000882, AC007559, AP011311, AL008629, AC005007, U73332, AC005071, AC006512, AL009179, AL031965, AC000226, AC005089, AC006486, AC007684, AC005075, AC005015, AJ003147, AC007227, AL1008635, AE000658, AC005536, AL033381, U14684, U14685, AP000557, AC006040, AL022311, AL021878, AC005962, AC005702, AC005670, AC004596, AC005210, U18391, U18392, U57006, U18394, AL050343, X55925, U18393, X54179, AC006130, U18390, X55932, AC006635, AC002420, U67825, AC007735, AC005529, S70707, AC004485, AC004531, AP000959, AC004150, AC006965, AC006210, AJ010770, AC005252, AC005355, AC016026, AL136168, AC004645, AL022336, S56773, AL035071, AF124730, AC006958, AP000087, AC006195, Z93783, AC007845, AC006996, U57007, AL035671, AC004544, AC005209, AL023553, AC004854, AP000038, AP000106,				
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HCUGB93	9206	850043	1-434	15-448		AC004020.
HCUGB58	9207	736092	1-99	15-113		AW263724, AD254913, AA478355, AW089101, AL135357, AL791913, AL792133, AL821714, AA219018, AW074913, AA502538, AL445088, AL469577, AA858372, AA493894, W01985, AL866487, AL470646, AA364453, AA526331, AW410354, AW023149, AW081871, AL733012, AL818737, AW084246, W03286, AL559705, AA693688, AL821785, AL751216, AA018823, AA547947, AL343148, AL134988, AL590485, AA846952, AL333016, AL560085, AL8354, AL732547, AA953238, H23653, AW384990, AA767412, AL134439, AL699436, AL783581, AL309375, AL119691, AA587604, AA526630, AL859946, AW088846, AL542523, AL382825, AL819140, AA582073, AA714110, AA937427, AL042853, R44116, AL134275, AL696962, AA449997, AL798473, AA468022, AW087356, AA326372, AL452726, NS2358, AA584733, AA587509, AW275666, AW265393, U69194, AL025864, AW080811, AL630176, AA781669, AA303007, AW103758, AL039145, AL932599, AL572924, AL029941, AL654781, AF034184, M77933, AA701080, AL030997, AC000990, Z86690, AC007308, AC005874, AL134471, AL035420, AL021918, AC004796, AC004797, AC002470, AC007226, AL121877, AC005829, Z93023, AC004878, AC005209, AC003043, AC005933, AC005057, AC004673, AC000080, U72790, AC004975, AP000505, AP000210, AP000132, Z81369, AP000248, AL079295, AC004985, AC004966, AC004033, AL050341, AL023803, AL008718, AC004686, AC007041, AL049576, AL022165, U52111, AC005500, AP000354, AC005071, AL129736, AL034418, AC002314, AC004895, AC005994, AL049377, L35667, AF135187, AC005612, AL109798, AL035530, AL049844, Z82215, AC009028, AC010206, AC007156, Z97054, AL0335067, AL035400, AC007690, AC004900, AL021391, Z83846, AC007686, AC003986, AC007537, AL022721, Z82198, Z99716, AC007056, AC004755, Z97056, AC004646, AC005538, AP001037, AC004024, AC005257, AC003104, AC004232, AC005245, U73636, AL152365, AL022322, AL031657, Z98752, AL022578, Y14768, AL034548, AL021026, Z94721, AC004685, AF038458, AC004865, AC005393, AL022313, AC006254, Z94056, AC002350, AC006581, AC004456, Z99570, AL022336, AL006996, AC004051, U89335, AL078585, AC007676, AF091544, AC006597, AC005088, AC007199, AC009743, AC002559, Z83844, AL050311, AC005479, AL121595, AC003101, AC007993, AL049301, AP000141, AC002115, AC005412, AC003692, AC003112, Z68323, AL022318, AB023048, AC004605, AD000812, M59199, AC007055, AC005998, AF170813, AP001054, AC005952, AL031055, AL031730, AL035691, AP000390, AC005067, AL049550, AC007242, AL096843, AC005682, AC005411, AC007371, AC005939, AF191069, AC004520, AL021393, AF066876, AL031291, Z84484, AC009247, AC004992, AL031672, U91326, AL024507, AC004000, AC002040, AC005354, AP000088, AL109952,

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					AL1274773, AL044966, AA642918, R95617, and AC005582.
HCUGB37	9208	706468	1 - 194	15 - 208	AL1741850, AA395206, AA720782, AA081138, AA668973, R08918, R09410, AL162138, Z93023, AC004491, AL031255, AC007308, AC005702, AP000502, AC005089, U85195, Z83844, AB000658, AC006441, AC004596, AC005568, AC002310, AC005874, AF134471, AC006254, AL133445, U91323, AC005102, AC005057, AC004837, U91321, Z98044, AC004893, AC004813, AL049830, AP000555, AC004895, AC006449, AF196969, Z84466, AC003412, AC004531, AC011331, AC005031, AL022324, AC004167, AC002470, AC005841, Z98050, AC006013, AC006141, AC004777, AC008040, AB000882, AC007676, AC004686, AF049895, Z82195, AP000501, AC000353, U95739, U80017, AC007298, AL109758, AC006252, AL132992, AC006285, AC004031, AL034548, AF111167, AC005330, AC007786, AL049569, AL009181, AL031447, Z47046, AC005231, AC004638, AB026898, AC005071, AC000026, AL049795, AC004242, AC005921, AC005081, AL096791, AC007546, AC002551, AC005678, AF035356, AF031078, AL021578, AL031589, AC004087, AF196779, AC005086, AC003684, AC006238, AL132712, AC002472, AD000091, AF030876, AC005971, Z95115, U47974, AC006277, AL033392, Z85986, AP000355, AP001067, AC006480, AC004882, AC004927, AF129756, AC007664, AL023553, AC006071, AP000116, AP000049, AC006084, AC002059, AC003077, AL031283, AC006537, AL031775, AL049761, AF111168, Y10196, AC005072, AC004963, AP000493, AC004526, AC004612, AL031289, AP000311, AC007216, AL031003, AL049570, AC005696, and AC005049.
HCUGB14	9211	854035	1 - 363	15 - 377	AL251002, AL205126, AA515435, AA886584, H64777, AW243698, AW088202, AL929531, T08438, AL358571, AH446464, AW029038, AA634146, AA348929, AW162049, AL038785, F36273, AL962050, AW166815, AA229785, AL279721, AL133636, AA826303, AL139850, AL904894, AL567674, AA713815, AL917271, AH690003, AL625244, AA669416, AL890923, AL281881, AL046409, AL679782, AW440836, AL120674, F17761, C05755, AL068626, AA483068, AA350859, AL064864, AW276827, AA347368, AL119391, C06327, AF154955, AL083946, U51696, AL866956, AL083998, AL809740, AL081095, AF150152, AL918421, AA719080.

HCUFY79	9212	494008	1 - 551	15 - 565	
					AA828704, AA644207, AA837084, AI357796, AI281697, AA657533, AW161752, AW162570, AI608966, W79504, AT744827, R01159, Z06828, AI279873, S75337, Z08754, AI14698, UI14695, UI14705, UI14700, UI14685, UI14686, UI14699, UI14710, UI14707, UI14702, M87916, UI14701, UI14691, UI14704, UI14684, UI14688, UI14689, Z73986, AP000115, UI14690, AC004383, AC006511, AI009051, AC007056, AF064865, AC002563, AC010722, AF053356, AC005037, AC006130, UI14694, AI132718, AC005412, AC005914, AC009731, AC002067, AC005661, AC008385, AC005332, AC004542, AI031846, AC004921, AC002477, AC004638, AB019438, AP000473, AI132712, AC000052, AI049830, AC005081, AC002059, AC002259, AC006352, AC007917, Z99758, AC004049, AI049709, AI07258, AC004506, AP000045, A39972, AC007284, AC005821, Z98255, U66059, AI035089, AC007666, AF111168, AP000553, AC005913, AC006374, AC005999, AI050305, AI121748, AP001053, AP000497, AC010197, AF196779, AF064857, AC005084, AC007617, AC004890, AI031054, AC006449, AC006351, AI049835, UI47924, AC007542, UI2580, AP000047, AC005066, AC005837, AC003088, AF015169, AF015167, AF015166, AI050348, AF015162, AF015158, AF015170, UI2583, AP000275, AC006285, AF015156, UI2584, UI2582, AI049775, AF050154, AC003101, AI035415, AP000037, AP000105, and AC005324. H47368, AW028376, AI668993, AW243945, AI021744, AI221027, AI567676, AA365049, T03613, AW273201, AW273146, AI002863, AI572680, AA657834, AW243817, AI885134, AW407007, AI370470, AA557945, H86399, AI312614, AA125758, AI308529, AA873661, AI274006, AA230221, AA362440, H47461, AA569220, AI884404, AI889177, AI567831, AW778580, AI031759, AA947352, AI003086, AA421536, AI434103, AI445768, AA640563, AA586553, AA749196, AA353081, AI281622, AI708108, AI044966, F26395, AI802266, NS1535, AI376687, T06339, AI538404, R79396, AI889648, AI613487, AA935827, AI279693, AA832108, AI336206, AA364082, AW029574, AI921692, AA774119, AW337483, AA578711, AI745666, H53109, AI734076, AA657808, AI649005, AI732102, AI732101, N23099, AA664924, AA772818, AI734075, AA587835, R06030, AI567391, F32823, AA368329, AI054090, AA648605, R64110, AI571094, AI298021, AI036536, AA599532, AA015948, AW089524, AW029626, AA297789, AA809546, H49253, AI683120, AI888050, AI251024, AI559720, AA847341, AI254770, AI284543, AA936099, AA593168, AA991640, AA351893, AI07563, R67038, AA8329003, AA507990, AA621916, AI732911, H91672, F25759, AA584360, AI816058, AA355094, AI150934, AA662614, AA525156, H51612, N49298, AA353957, AI230024, AA339932, AW151523, H83899, AW020682, AA600863, AA975894, AF68179, AA610644, AA835702, AI570067, AI249853, AI038533, T16147, AI760850, AA112864, AI167715, AI065031, AI246061, AI668566, AA225566, AA254594, AA362439, F31811, AA196287, AA078754, AA368659, AA513916, AA467740, AA832104, AI049843, AB033024, Z82198, AI133448, AC006241, AI050307, AC004749, AD000092, AC004130, AI109847, AI031680, AC002991, AI022146, AC007421, AC005015, Z69364, AC005694, AC004753, AC005574, AC005566,

HCUFW11	9213	850054	1 - 495	15 - 509	<p>U73636, AL035249, AL080276, AC004765, AC005828, AC005753, AC002306, AC002312, AC005527, AP000280, AC007746, AL031284, AC007237, Z99716, AC005736, AC000353, AC004997, AC006049, AC007201, AC006165, AL239318, AB023051, AC006024, AC004006, AL109799, Z82899, AC005822, AP000512, AP000107, AP000039, AC002481, AC000046, AC000338, AC005744, AC004883, AL117329, AL133163, AC005585, AL033533, AL035681, AC005529, AC005747, AC006261, AC007993, AC006077, AC006968, AF130249, AC004671, AC005519, AC009542, AC009330, AC006006, AL031447, AL031670, Z98752, AL049635, AC005531, AP001068, AC006538, U07561, AC004805, AL035588, AC005907, AL031846, AF112441, AC005524, AL035445, Z98948, AL022302, AL133312, AC004975, AC004833, AC008726, AP000256, AP000098, Z74696, AC003689, AF045569, AB000931, AC004233, Z75896, AC004643, AL049576, AL109956, AC006959, AC006409, AL031295, AC005185, AF207550, AL023775, U00460, AC007263, AC004485, AL031123, Z84469, Z83840, AL049591, AC006509, AL035659, AF146651, AC000388, AP000243, AP000203, Z98036, AL034420, AC004887, AL135960, AL131016, AC007564, AC007021, AL132992, AC004534, AC000134, AC002449, AC004675, M27835, AC006948, Z82206, AL008735, AC004953, AL035494, AC006111, AL034402, AC007055, Z82201, AC003684, AP001056, U78027, AF088219, AL009181, AC006449, Z73979, Z93848, U82694, Z97630, AP000077, U89337, AL035699, AL031674, AC004876, Z74739, AL035079, AL023913, AL122020, Z97987, AC005666, AC005304, AL139054, AC005225, AC000432, AP000361, AP000116, AP000049, AC002060, AB019437, AC005846, AC004771, AL035422, AC002400, AL011930, AC004751, D34614, AC005933, AL034423, Z98051, AL049569, AL049781, AC005565, AC006317, AC005412, AP000356, AL022326, U95739, AB017602, AB025285, AL050347, AP000348, AC002450, AC006162, AC005159, AC005002, AC004897, Z98048, AP000083, AP000347, AC003025, AC004904, AC006543, AC005484, AC004583, AC007130, Z83843, AL021808, AC007387, AP000354, AL033525, Z83820, AC006544, AL031133, AC003037, AC007934, AL096761, AC004131, AL050306, AL008731, AC010175, and AC005280.</p> <p>H90851, H90192, R10716, AA493603, N63093, R02937, AA714012, AA069926, H58474, AA745570, AA653323, T47274, AA598964, AA653202, AF732164, AB821721, AA214346, AW265139, AA669434, AW069667, AA846890, AL452778, R84431, AC006897, H29460, AL281475, M63796, AL078476, AL117355, AC004526, AC004491, AC004841, AC005800, AC005015, AF030876, AC004923, AC004477, AC005912, AC002551, AL035685, AC004685, AC007226, AF190465, AF031078, AC004217, AC006257, AL035419, AP000210, AP000132, AP000696, U66083, Z99916, AL034417, AC004929, Z98742, AF010238, AC005736, AC004598, AL121657, AC005102, AC002456, AC004257, AL033392, AL034343, Z84467, AC003102, AL031680, AC006101, AC005046, AL096803, AC010206, AL031686, Y13537, AC005081, AC004197, Z85987, AL031311, AC003670, Z95116, AC005768, AC004884, AL023284, AC002378, AC002300, AC007192, Z49918, AP000248, AC004814, AL246003, Z47046,</p>
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HCJFW09 HCJFT37	9214 9215	625638 706467	1 - 188 1 - 419	15 - 202 15 - 433	AC004813, Z99128, AC006011, AL008629, AC002307, AL031275, AC005753, Z84469, AC020663, AC002064, AC002429, AL121658, AL096791, AC000003, and AC005520.
					T92360, and AC002807.
HCJFW09 HCJFT37	9214 9215	625638 706467	1 - 188 1 - 419	15 - 202 15 - 433	AW445217, AA002880, AW128545, AW027901, AL290104, AL830526, AL820978, AW152451, AA015749, AA226104, AA226109, AW301855, TS8513, AA506744, R9597, W32993, AW151870, T34558, AA487829, AF567676, AA757646, AF581006, T48770, AL174701, AT791408, AT791720, AW162762, AA354695, F35789, AL500315, T69899, AA653291, AA551030, T47138, AW262716, AW167202, AA847341, AA668421, AL884404, H37892, AA354677, AL821945, AL82330, AW148821, AL251024, AA809104, AL018726, N70293, AA300049, AL445699, R10144, AA147521, AL047405, AF702049, AL002952, AW265468, N78600, AA078225, AL138262, AW192930, AA757406, AL121039, AA621720, AW157128, AW1918661, AA494047, AW410844, N53448, AA180857, H77666, AL064968, AL760850, AW162314, AL038533, AW162332, AL049999, M177964, C15811, AL538404, AA225519, AT744890, AA172103, AA349923, AA362440, AW407007, AA524846, R93823, AW262946, T59738, F09745, AW157173, AA459879, T59624, AW274180, AL031577, AC005280, Z82193, AC005203, AC006111, AL02476, AC004150, AC004383, AF124523, AF118808, AC004051, A65971, L81868, AC000094, AC000885, AC005877, AC006974, AC005058, AL022331, AP000280, AC004816, AP000107, AC007041, AL008719, AC006146, AC005534, Z98036, AC007738, AL031295, Z94036, AC002420, AL021918, AC002997, AD001502, AL035455, AE000660, AL109982, AC007367, Z94865, AF007876, AC005225, AC007421, AL022315, AC005746, AL049569, AL020997, AC007030, AC004671, Z98946, AL031602, AC004007, AF196972, AC005670, AC005411, AC006121, AC005839, Z85987, AC004771, AC004797, AL032821, AC005231, AB017602, AC006130, AP000503, AC005089, AF134726, AC007298, Z69375, AL031321, U73634, AP000967, AF064861, AC004966, AL133163, AF107885, AL049776, AC002984, AF124730, AF111167, AC002350, AP000349, AC005005, AC002472, AP000350, AC007664, AC009248, AC007686, AL022238, AL035681, AC008072, AC005179, Z98048, AC005519, AP001053, AC007038, U45945, AC006261, M81181, AC005752, AC004920, Z93115, AF047825, AL133445, AC007016, AT246003, X69907, Z73979, AC004814, AC005300, AL049766, AC006946, AC007225, AF001550, AC006581, AP000300, M68006, AF165926, AP000693, AC000115, AC005320, AC002401, AL034429, L78833, AC005878, AC005821, U51561, AC004686, AC005354, AC004753, AC005239, U62317, AL121658, AL117238, AC002449, AL022165, AC004648, AC005159, AL049709, AL096801, AC005695, AP000045, AP000113, AC002045, AL022396, Z73360, AC004475, AP000558, AC002551, AL031683, AF7200465, AC006367, AC004812, AP000557, AC002395, AC009516, AL137442, AC005531, AL132992, AF045555, Z61071, AL031659, Z92542, AC005324, AC007685, AL009179, AC020663, AC006006, AL020993, AC005049, AP000952, AC002477, Z68284, U07562, AC003030, AC004409, AC005808, AC004079, AC004685, AC003093, and AC004841.

HCUF008	9216	959567	1 - 444	15 - 458	AA555097.
HCUF011	9217	967155	1 - 361	15 - 375	AW302013, AL064609, AL101519, AL138265, AL284640, AL063720, AL568678, AL334443,
HCUF096	9218	796434	1 - 383	15 - 397	AW169537, AT754955, AE623002, AW193265, AL431303, AW276827, AL502111, AW438643,
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					AL270117, AL432270, AL305766, AW192602, AL289067, AW276433, AL037683, AL340453,
					AL688846, AL138455, AL859742, AW072587, AL708009, AA577906, AL471481, AL3438500,
					AL341664, AW193432, AL499503, AL053672, AL951889, AL042420, AL801591, AL434695,
					AL048925, AA581903, AL312309, AL137954, AL379719, AL951928, AW238278, AL287528,
					AL590958, AW7088846, AL3754658, AW406755, AL619997, AL865990, AA758934, AL358343,
					AL597505, AL061334, AL14735, AL040382, AL590689, AA857486, AA977743, AL358343,
					AL580652, AA916371, AA780515, AL694436, AL246119, AL064864, AL890570, AL890928,
					AL345518, AA490183, AA491814, AW085794, AL143242, AL559251, AL298710, AL367256,
					AA679672, H70615, AL564496, AA569471, AW148792, AL352368, AL446464, AL467919,
					AA488395, AL669453, AL344884, AL357288, AL473943, AL747222, AL674873, AL801600,
					AL365988, AL305547, AL358571, AL345157, AL246997, AL798473, AL872067, AL692808,
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					AL282832, AA410400, AL625647, AL091495, AL281697, AL044940, AL955538, AL017024,
					AL653886, AL038833, AA632624, AL302648, AL357551, AL307201, F29989, AA610493,
					AL120269, AA621858, AA877817, AL041706, AL499054, AL669840, AL569284, AL371070,
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					AC006160, X54181, AC004675, AL031295, AF015156, AC006544, AF088219, AC005703,
					AC005881, AL049643, AC004019, AC004382, X55926, AC007216, X55923, AC005837, U18393,
					AC002310, AL008715, X54178, Z98884, AF015151, AC000052, X54180, AL033397, AL050321,
					AC000270, AC005071, AC005696, Z76629, Z49816, AF067844, X75335, AC004448, AC002227,
					U57005, U57008, AF205588, AC004388, AC004992, AC004554, AC006079,
					AC002347, X55932, U18392, X54176, AL031774, AC006576, AC004596, AF134726, AC002558,
					AC004030, U57006, AL022329, AC004673, AC005839, AC016830, AC006634, U95742, AL183990,
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					AL008627, AL049562, L77569, AC005066, Z99129, AF015348, AL133396, AL049856, U57007,
					AC006480, AP000503, U47924, AC000353, AC006205, AL035448, AC005011, AC005250,
					AF015147, AL049647, AC003002, AC006989, AC004808, AC004933, AF085444, AF015157,
					AF000127, AP000205, U85195, L81648, AC007688, U18387, AC005295, M37551, AF004150,
					AC008009, AC006509, AL023882, AC002094, AE000658, U02531, AC005531, AC004028,

						AC008168, U67231, AL011930, AC008101, AC002456, X55931, X55924, AC005765, AC004690, AL096791, AC004381, Z75888, AL031447, AC006384, AL121603, AL049833, AC004638, Z96074, U67221, Z82180, Z69706, X55922, AP000474, AL016027, AC007317, AC002377, AC004691, AL137100, Z75887, AL117258, X55548, AP000501, X88791, AC004894, AL006998, Z99716, AC005815, AC007666, AL021453, AL034449, AF001549, AF015723, MI3254, AC004962, AL031391, Z82210, AC000111, AL049845, AC004648, AC004000, AC005002, AL096829, AL133399, AC005154, AC007055, AC003977, AC004210, AC005046, AF015153, AL132987, AC002063, AC002542, AF207550, AL033543, AC007298, AP004473, AC002984, AF227510, AC009069, AC002429, AC006371, AL035688, Z86061, AC007043, AL096861, AL049761, AC004987, AC007363, AL030318, Z85986, AC004038, AC005822, AL031446, AC005694, AC004453, AF047825, AC007676, AL096701, K03021, Y18000, AL121578, AL035541, AC008115, AL121591, AC000003, D84394, AP000508, AC003085, AC006251, AC006597, AC005081, AC004220, U67233, AC002395, AC005242, AC006946, AC005484, AP000275, AC007226, AC005527, AC005060, and AC006128.
HCUF093	9219	792376	1 - 348	15 - 362		AA501508, AI914747, AI223948, H50970, AW021083, AI345780, AI174876, AA516164, AA230251, AI369580, N77109, AA835854, AC002472, AC003982, U96629, AC007664, AC004967, U91323, AC006547, AC002054, AC005274, AC004099, AC008018, AC007546, AP000553, AC003101, Z98884, AP001051, AF053356, AL020997, AC006141, AC005821, AF095901, Z98743, AC004590, AC005225, AL022336, AC004876, AC005952, AC005972, AC005659, AC004895, AL035071, AC004382, AC000097, AC005105, AC004882, AC005972, AF196969, Z95115, AC004707, AC007225, AC000353, Z95331, AC007036, AC002551, AC004887, AL139054, AL035685, AC006536, AL035455, Z77249, AF121781, AL049872, Z97054, AC005800, AC005295, AC005015, AC005899, AL022320, AC004985, AL049540, AC005414, AC005971, Z83822, Z93023, AC016026, AC004787, AC005822, AC005912, AP01549, AC004685, AF086284, AC004963, AC005488, AC004966, Z85986, AC005529, AC002365, AC006057, AC002511, AC005902, AL023807, AC005932, AL034420, AL031230, AC004983, AC003037, AC005914, AC005520, AC005231, AC006088, AC004253, AC006084, AC007565, AC005531, AC004491, AC005387, AL049569, AC007216, AC005756, AC002302, AC007938, AC004841, AC002352, AC005089, AL005193, AL133445, AC003109, AL031657, AC005874, AF134471, AL021154, U91321, U91318, AF227510, AL049709, AC006791, AC000159, Z84466, Z95113, AC005049, AC005740, AC004031, AC007055, AC003003, AF111168, AC006026, AL109984, AC002126, AC012083, AC004453, AL049874, AC005486, AC005764, AC004383, AP000555, AF196779, AC004883, AP000499, AC006538, AC005022, and AL009181.
HCUF068	9220	753083	1 - 358	15 - 372		AI570261, AA491814, AI963720, AW088678, AI568678, AW029038, AL738643, AI138265, AA482711, AI962050, AW193265, AW197982, AW303196, AW274349, AW264460, AI610159, AI350211, AI431303, AW301350, AA806796, AA652764, AI358229, AL046409, AI613280,

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HCUFO43	9221	715337	1 - 229	15 - 243	AA661921, AA613591, AA063173, AL270117, AW193265, AL583283, AH431303, AA527630, AA689526, AW274346, AA584167, AL350211, AW438643, AA828227, AW406755, AA634384, AL345157, AL1370094, AL284640, AA490183, AL613280, AL044940, AA503600, AL370074, AA559290, AL358229, AL345654, R98359, T94842, AW023990, AL860013, AW083402, AW303196, AW083364, AW274349, AT754658, AA826303, AL05766, AL119691, AA326372, AW301350, AA847409, AA668244, AA812281, AA613397, AL046409, AA634889, AA482711, AA653375, AW021207, AA658362, AA483223, AA577906, AL688846, AW264934, T40452, AL494203, AL962050, AA493708, AW419262, AA599920, AW193432, AW088202, AW069769, AA601433, AL619997, AA630925, AA551503, AL918421, AA083046, AA855101, AL687343, W45625, AA580808, AL625244, AA847499, AW196064, AW302013, AL698447, AL744995, AA581903, AA584805, AA661814, AA492081, AA603185, AT754955, TS1911, AA992351, AL696962, AA467820, AL041690, AL358431, AA502860, AL289067, AW263477, AA782304, AA548586, AW302903, AW050498, AL241821, AA169263, T41259, AA459768, AA664015, AA719805, AL054352, D52587, AA834667, AA569471, AA574442, AW408047, AL938105, AL038705, AA501762, AL932493, F34498, AL814735, AA613227, AW021583, AA623002, AL282511, AL036037, AL054343, NS3150, AL084294, AW261871, AA834755, AA494907, AA602047, AL866160, AW149156, AA491831, AE175710, AL038785, T40308, AL079511, AW273218, AA525824, AA584201, AL046025, AL866432, AA737318, AA848134, AL963720, AA618452, AA548689, AA857486, AL251002, AW265385, AA838190, AL338350, AL037683, R40056, AA309530, AA483771, AA491862, AA578861, H40936, F08473, AA401688, AA613203,

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HCUF036	9222	575850	1 - 441	15 - 455	AA306060.
HCUF024	9223	677273	1 - 452	15 - 466	AA267858, A1267573, A1267490, A1267216, A1267669, and AC005332.
HCUF011	9224	967156	1 - 453	15 - 467	AA442883, AW204253, N95221, N95171, AW340237, A1222434, A1812038, R31121, AA618508, A1983344, A1143805, AA879440, A1250910, A1654496, R31082, R48546, R41487, A1659922, A1698459, T98808, R79982, AA909113, R25153, H67267, R07369, R76503, R83351, R77383, H54440, R27769, H21958, and H62374.
HCUF035	9226	706461	1 - 400	15 - 414	T52610, AA283902, and AA703521.
HCUF040	9227	711242	1 - 389	15 - 403	AA538438, AA086238, A1383110, and AA112018.
HCUF035	9228	706460	1 - 1041	15 - 1055	AA190564, A1802383, AA193673, T54701, H60718, T54617, A1033527, AC005015, AC004554, AF196969, Z98200, A1080243, Z98941, AC003102, A1034379, A1009181, AC005513, AC005102, AC004889, AP000047, AF067844, AC004526, AC002378, AC002477, Z81364, AC005529, AC005523, AP000365, A1021407, U91318, AC005081, AC004216, AC009405, AP000115, AC096791, U95739, AC005755, A121603, Y18000, AC006487, AP000696, AC004841, AC004983, AC005994, AC005291, AC004685, A1096773, AC005592, AC004975, AC006312, AC004832, A1023096, A1031666, A1034417, A1032384, A1080241, AC007425, AC006449, AP000502, AF053356, AF001550, AC003950, A1031681, A1035683, A1035422, A1049744, A1021154, and AC002302.
HCUF009	9229	961145	1 - 424	15 - 438	AA384134, AA383892, and AC006276.
HCUF108	9230	850074	1 - 206	15 - 220	AA156314.
HCUF150	9231	974472	1 - 411	15 - 425	AA095641, AA471338, Z66259, and Z66258.
HCUFF74	9232	765662	1 - 382	15 - 396	AA100176.
HCUF055	9233	731843	1 - 171	15 - 185	A1359088, A1470695, A1419227, N92325, AA424589, A1246165, A1277557, A1123268, A1122787, N31489, A1100097, and A1031297.
HCUF054	9234	730745	1 - 300	15 - 314	AA250762.
HCUF070	9235	757280	1 - 629	15 - 643	N73061, R10527, N53696, A1077389, A1032040, and R10119.
HCUES01	9236	916805	1 - 596	15 - 610	AA565210, and AA565209.
HCUEBQ12	9237	922556	1 - 435	15 - 449	AA043442, W79487, AA670449, A1801522, AW152284, AW328473, A1270655, A1819023, A1884682, AW071997, A1523995, A1831391, A1827306, AW268528, AW006973, A1625967, A1719530, W79431, AW194190, AA630129, A10709152, A1207503, AW083219, AW235333, A1680026, A1797189, A1828228, T30026, A1832628, W79332, A1970208, R14878, A1968008, A1652332, A1631584, T30434, AW196568, F20226, T47161, AW384586, A1867971, AW384680, T23926, A1047696, AW384676, A1432058, A1432606, AA043441, T34452, AW235729, A1674454, AW384658, AW003005, W79631, Z4340, AW384653, W00670, P08757, R21703, H05366, T27643, AA448723, N41797, T80148, AA316541, T32038, N98906, A1371701, H17706, AW409853, AW062715, AA075111, T31757, H23423, T36166, W23945, AW062719,

HCUEP32	9238	586999	1 - 261	15 - 275	P05919, W35174, M62128, N25478, W25399, AF113701, AC005297, and AL110153.
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HCUE074	9239	576576	1 - 209	15 - 223	<p>U49740, AC004167, U14701, AC007848, AC005019, AC004204, E01888, E02193, U12580, AC005209, AL031722, AC002564, AC005306, AC003080, AR042836, U12582, AB020859, AC006128, AL079295, AL049553, AC004232, AP000088, AC005603, AC006277, AC004987, L81648, AF165142, AP085913, AC004940, AL121591, Z82210, AC005387, AL049647, AF015157, AC004678, AL004771, AC000353, AC020663, AC003111, AC005102, Z98051, AF067844, AL008728, AC004650, AL031680, AC006292, AC002347, AC007298, AC005527, AC004933, U14700, AC002300, AC006565, AC005622, AC004205, AC005703, AC005565, AL021940, AC004210, AF090944, AC006022, AC004253, M19045, AC018633, AC005253, AC009227, M22900, AL133396, AL031668, AC005046, AC002430, AF190465, AL136295, AC008372, AC000118, AC006064, Y18000, AC006367, AL133371, AC004016, AL031054, AC004859, AC005919, AP004688, AL031734, AF121781, AL121603, AC006205, Z86061, Z70042, AC004019, Z68192, AP003559, Z98752, AC007384, AL049776, Z99716, AC003085, AL096765, AC008067, AC007099, AC006251, AC004986, AR000118, AC003692, AC005366, AL096861, AC002102, AC007666, AC004883, M96868, AL136297, AC006241, AC004643, AC005288, D87675, AL078604, AC004690, AC005745, AL050308, AC004675, AL133399, AC003980, AL079340, AC005768, AC003691, Z93241, and Z82976.</p> <p>AW263415, AL932493, AL133297, AL45674, AL661921, AL618452, AL279421, AA478355, AA584167, AA634889, AL499588, AA551552, AW270343, T06754, AL953275, AL138455, AW275510, AW117809, AL045808, AL046156, AA3368059, AL284640, AL046409, AL34443, AL872020, AW303196, AL270117, AA468244, AW193265, AA477122, AL963720, AA635739, AW301350, AL583283, AL691091, AL345157, AA455670, AL042853, AW274346, AL046266, AA834792, AA658362, AL311927, AL515334, AL241821, AA490183, AA857486, AL042755, AL754658, AL133164, AW301995, AW002350, AW023990, H71429, AL816141, AL873852, AL004704, AL038606, AL471887, F00107, AL247199, AA719292, AA504877, AW084466, AA508359, AL754336, AL292257, AL732547, AL536665, AL350211, AA912099, AW163293, AW069769, AA483223, N58361, AA401240, AA745406, AA679634, AL370074, AW088616, AA908514, AA493695, AA568869, AL110844, AA483929, AL613280, AW083402, AL687343, AW302903, AW303002, AL042420, AL860013, AW235497, AL041690, AL037683, AA533333, AL274349, AL138396, AL007608, AW304584, AL932599, AL119713, AW088846, AA847499, AL345654, AL049490, AL027459, AA702729, AL040342, AA623002, AL019312, AA630672, AL524397, AL039584, AL013124, AL421841, AL696962, AL744826, AL633390, AL610491, AL121235, AL046205, AA455558, AL063173, AL568745, AA333638, AW023149, AL053406, AL561060, AL747070, AL537506, W01230, AL431303, AA192740, AA178953, AL047427, AL686267, AL043009, AA469451, AL536958, AA419262, H42271, AL1038966, AA167055, AW168618, AA526787, AA526316, AW118539, AA487888, AA018283, AL925579, AA402237, AW075511, H18354, AL305766, AW021207, AL064952, AL805349, AA708664, AL045053, AL002510, AA083046, AW021735, AL370094, AL929627, AL601355, AA633753, AL084294,</p>
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HCUE020	9240	669764	1 - 534	N23656.
HCUE093	9241	792424	1 - 385	
HCUE115	9242	660450	1 - 356	
			15 - 548	
			15 - 399	
			15 - 370	
				AA173444.

HCUEJ24	9243	677300	1 - 468	15 - 482	H23054, and R54553.
	9244	953587	1 - 548	15 - 562	AA573289, AW295640, T62516, and T62587.
	9245	683541	1 - 532	15 - 546	H67726.
	9246	706450	1 - 280	15 - 294	
	9247	932123	1 - 181	15 - 195	
HCUEJ27	9248	839955	1 - 375	15 - 389	AA425283, T94247, C15966, A1547110, AW085751, A1523991, R51854, AA063493, AA063419, A1696455, AC005755, A1049694, AL035086, AL049795, AC004526, A1109628, U91324, AC011311, AF008219, AL008734, AF207550, AC004675, AC004098, AP000497, AL021707, AL031668, AC007563, AC005519, AF196779, AC007051, Z93023, AC005082, AL022313, AC006599, AF084517, AC006449, AC005059, AC006511, AL133448, AC006139, AL049776, AC004263, AC004856, Z82198, AP000300, AP000400, AP000501, AC004797, Z97054, AP000359, AL022311, AC006077, AC005779, AP000496, AC003013, AL004797, AB014079, AP000344, AC005822, M63543, AL133321, AP000045, AP000113, AF001549, AC005372, AC004148, AC005067, AC005207, AC006121, AC000353, AL080243, AC004702, AC005899, AL022316, AF217403, AC004072, AC005726, M63544, AC005839, U52112, AC004491, AC006441, AC004805, AB001523, AC007934, AJ003147, AL133244, U62293, AL035420, AP000514, Z97632, Z97056, AC004236, AL022721, AL022322, AL132712, AC004650, AD000092, M89651, AL034379, AC003109, AC004876, Z82215, AC000115, AR004690, L78833, AC005099, AC005225, AC002395, AC004929, AC005668, AC007919, Z94036, AC005261, AL096678, AP000355, AL008582, AC005057, L78810, Z83838, AP000354, AC005624, AC005179, AC004134, AC006211, AL035400, AL050321, AL033392, AC031427, AL096701, AL022302, AC005274, AC002559, AC004841, AL008722, AC007676, AC003065, AC003043, AC002369, AC004884, AL008716, AC005412, AC007371, AC005829, AL020997, AC005003, AL031680, AC005033, AC005251, and AC004167.
	9249	839955	1 - 375	15 - 389	AA501344, AW086257, A1569202, A1267847, W07032, A1510838, AW088202, AA584201, AW406755, A1580632, A1255095, A344959, A1493546, AA488395, A1558229, AW301818, A1865364, AA551509, N43757, A1547286, AA384502, AL041368, AL0205126, AL0989742, AW236342, A1433187, AA450199, AL138265, AW023672, A1921649, F29989, A1376100, AL036706, AW361583, AA428414, A1076396, AW074059, A1556904, A1537477, W610159, A1922654, A1564284, A1053429, AA482711, AA916039, AA658235, A1561335, A1601019, AW074398, AA063118, AA828851, AW265294, A1307426, AA826032, AA486680, F28576, AA394271, A1250019, A1365988, A1963786, AW440976, AA557325, A1569086, A1534397, AW339687, AA828680, AA395060, AL284640, AA828696, M78150, A155272, AA723017, AA626678, AA826144, AL038279, A1016000, A1079910, A1144055, T29360, A1336829, AA515051, AL079645, A1471464, AL042836, A1291124, A1471487, T40286, A1003743, A1291268, AA679266, AA228420, A1537030, A1053816, A1054246, A1431688, F36273, A1453383, A1679782, N27353, A1871825, AW080134, AL040130, AA640900, AW301538, AA654968, AA366035, AF177861, A1648538, A1254649, A1792580, A1845241, A1792510,
	9248	839955	1 - 375	15 - 389	
	9249	839955	1 - 375	15 - 389	
	9248	839955	1 - 375	15 - 389	
HCUDY74	9248	839955	1 - 375	15 - 389	

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HCUDX89	9249	974483	1 - 571	15 - 585	N88601, AA247827, N84048, N84855, N83168, AA095359, N83992, N89991, N89520, AA096046, AA093224, AA247964, H58760, N88782, AA096066, AA471338, AA095648, N84718, N86694, N83993, N84712, N55698, N88518, N84830, N84829, N87989, N87898, AF039698, U48696, AF103726, S78798, AR066487, AF102850, AF045432, AJ243486, AF032022, and U39066.
HCUDU18	9250	850099	1 - 247	15 - 261	AA167604.
HCUDQ81	9251	902510	1 - 317	15 - 331	AL138265, AL046409, AL284640, AW193265, AL334443, AL963720, AL431303, AL350211, AL754638, AL613280, AL281881, AL131164, AL046205, AL270117, AL345654, AA665330, AL110770, AW327868, AL1119691, AA521323, AW303196, AW274349, AW419262, AA720702, AA581903, AL038785, AW410400, AW301350, AL954260, AL041690, AL570261, F36273, AA610491, AA521399, AL042853, AL138455, AA847499, AW021207, AL679782, AL120687, AL537506, AL358571, AL037683, AA394271, AA490183, AA526787, AL254615, AW263385, AA551503, AW029038, AL890918, AL355206, AW162049, AL295531, AA649642, AA584201, AL339850, AL044940, AW088846, AL345518, AA630925, AL040921, AL962050, AA587604, AA491814, AL633390, AW269488, AW023672, AW088202, AL634695, AW088616, AL589230, AL696962, AL149478, AL048925, AL061334, AL053672, AA631507, AW069769, AW238278, AW073470, AA491284, AL471481, AL469968, AA654771, AL289067, AW407578, AL567674, H71429, AL192631, AL610159, AL623720, AW304584, AW276827, AL042420, AW265593, AL610920, AW438643, AA613227, AL568745, AW406755, AL345681, AL345675, AA857486, AL708009, AL890348, AL625243, AL473943, AW439558, AL918421, AA623002, AA482768, AW028392, AL732764, AA826303, AA569471, AA661948, AA533725, AL341664, AW193432, AL358229, AW008952, AA713815, AW028429, AL688846, AW103509, AA877817, AA502103, AW020340, U51696, AL079645, AA682912, AW071196, C06327, AL799642, AL375710, AW080134, AL821271, AA678436, AL904894, AW166815, AL046689, AL307201, AL064864, AL133102, AL919265, AL749559, AW261871, AL005388, AA587256, AL049722, AL044858, AL085719, AW238583, AW083402, C05755, AA468131, N66026, AL619997, AA610493, AA469451, AA493708, AL305766, AL038705, AL801482, AL120674, AL046457, AL251002, AL587583, AL587565, AA908687, AA522942, AW302013, N35896, AL679122, AL687343, AW072923, AA601388, AL365988, AW104748, C75026, C06458, AA747276, AW270270,

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HCUDQ45	9252	881366	1 - 577	15 - 591
HCUDN89	9253	811185	1 - 315	15 - 329
				AA913154.
				N45489, AA639774, AI453267, AA410355, AW009346, AI676083, AA565422, AI123546,

HCUDN82	9254	779978	1 - 429		AI823714, AI807753, AA084901, AA284234, AI312027, AI436666, AW001163, AA372073, AF076931, AP099739, AB016869, and AB019245.
HCUDN71	9255	862116	1 - 381	15 - 443	T63603.
HCUDK08	9256	959679	1 - 395	15 - 395	AA278703, and AW292815.
HCUDJ17	9257	664109	1 - 214	15 - 409	AI629017.
				15 - 228	AA578621, AA453558, AJ243486, AC005696, AF196969, AC006211, AC005231, AI022476, AI121603, AC004805, AC004643, AC002996, Z93016, AC005295, AC006126, AC007226, AP000042, AP001069, AP000031, AC005005, AC004448, AC002302, Z82173, AI022312, AI023882, AC002073, AC005971, AI035423, U57833, and AI050348.
HCUDG26	9258	681985	1 - 419	15 - 433	AA086020.
HCUDD07	9259	953588	1 - 346	15 - 360	AI117375, AI133163, AC006512, AC006241, AC005225, AI050348, AC007240, AC006450, AI034417, Z98200, AI035413, AC005015, AC004973, AC005513, AC004912, AC005519, AC005003, U07563, Z85987, AP001054, AP000343, AC008134, L78810, AC005006, AI109984, AC005697, AC005300, AC004882, AC005399, AI133371, U91321, Z97054, AC006946, AB001523, AC005081, AC006465, and Z84466.
HCUCK58	9260	850117	1 - 253	15 - 267	N78946.
HCUCI14	9261	659221	1 - 490	15 - 504	W87347, T86628, and AW044560.
HCUCI23	9262	676276	1 - 196	15 - 210	AA021595.
HCUCI29	9263	608615	1 - 680	15 - 694	T03576, AA315915, AI351839, AF196971, AC002425, AC004859, AI096701, AC004216, AC005049, AI034548, Z97054, AC006449, AF001552, AC009516, AC005844, AF196779, AI096774, AI109758, AC002544, AI023807, AC004079, AF111168, AC004999, AC002369, AI246003, AC006064, AC012384, U47924, AC007021, AC005081, AI022320, AC006120, AI121603, AC006088, Z84469, AC005529, AF045555, M89651, AC005702, AB023048, AF118808, Z83822, AC004882, AC004019, AF111169, AC005082, Z85987, AC007055, AC003043, AC007216, AC002551, AC004491, AC007842, AC004253, U91323, AP000553, AC006430, AC005666, Z97630, Z83844, AC004526, AC004876, Z98742, U95742, AI031733, AI079342, AC007277, AC005399, AI121653, Z85996, AC005619, AI109827, AI022165, AC004150, AI049636, AC004383, AF196972, AP000134, AP000212, AI035086, U95740, AC000052, AC002115, AC005620, AP000501, Z99716, AI121658, AC002477, AC002288, AC007388, AC004222, AF134726, AC005011, AC006512, AI132987, AC005527, AC006344, AB026898, AI133163, AC004890, AP000689, AC005067, and AC004832.
HCUCG40	9264	800153	1 - 141	15 - 155	
HCUCG07	9265	953823	1 - 287	15 - 301	AA807580.
HCUCD83	9266	781346	1 - 411	15 - 425	N29857.
HCUCD05	9267	923233	1 - 363	15 - 377	AA083732, AI968034, AI160994, and AA083733.
HCUCB45	9268	850122	1 - 497	15 - 511	AI014555, AI971212, and AI765152.

HCUBV91	9269	790368	1 - 431	15 - 445	AA055642, AA857295, and AC002433.
HCUBT35	9270	850126	1 - 312	15 - 326	NS8798, AH472668, AU20984, AA295874, AA295865, AA496309, AA158240, AA908682, AA610822, AA525089, AU086495, AW247156, W44559, AA372231, AU049869, AU049591, AU109952, Z97053, AU136295, AC005377, AP000500, U91322, AC010205, AC005102, AU1031428, AC006536, AP000512, AC008585, AC011456, AU139054, AC005839, L29074, AF205588, AC007676, AB023049, AP000402, AC008040, AU121658, AC005390, AF042089, AU1031311, AU1033547, AC007510, AC005332, AC002400, AC005179, AF207550, AU1035587, AC004134, AU109628, AC004882, AC006115, AC005971, AC007051, AC006952, AC004017, AU1021707, AC005305, AC005409, AC007229, L14561, AC005207, AC007055, AU102097, AU1078602, and AC005288.
HCUBS07	9271	953861	1 - 386	15 - 400	W86764, AU08342, and AU1033518.
HCUBP94	9272	574198	1 - 137	15 - 151	
HCUBP82	9273	526773	1 - 56	15 - 70	
HCUBP48	9274	577289	1 - 397	15 - 411	
HCUBP34	9275	576462	1 - 370	15 - 384	H93547, AU1307499, and AU1022171.
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HCUBP10	9276	961259	1 - 201	15 - 215	AC006312, AP000694, AL133163, AC004526, AC004491, AC006965, AC005409, AC005089, AC005899, AC006241, AC007151, AC004914, AC006137, Z97876, Y18000, AC005726, AC005694, AC007193, AF111170, AC000081, AC007057, AL021937, AC004973, AP000354, AC005057, AC005258, AP000009, AC005666, AC001643, AL049709, AC007035, U96629, AC005632, AL031311, AC004799, AC004805, AC004966, AL034429, AC004887, AC004821, AL033392, U80017, Z82195, U95990, AC002326, AL023775, AC004851, AC004813, AC009247, AL031295, AC007688, U47924, AC005663, Z95115, AP000338, AP001065, AL024507, AP000500, AC004765, AL021579, AP000104, AL049694, AL109984, AL117344, AP000692, AC002059, AL035685, AL034549, Z99128, U62292, AC005523, AL022336, AC005060, AC006449, AP000216, AC005529, Z73359, AP000307, AC003029, U82668, AC005740, AC009464, AL009181, U95741, AC005207, AP000503, AC004797, AL031602, AL049569, AL021546, AL049766, AC005102, AC005971, AC004099, AF031078, and AP000045.
HCUBO67	9277	526489	1 - 261	15 - 275	AL538236, H99700, AA757426, T62078, T66731, AL041375, AC007842, AC007199, AC005971, AC005529, AL109758, AC000085, Z83844, U47924, AP000689, AC003010, AC010582, AB003151, AC007376, AF111167, AC005899, AF030453, AC005031, AC004999, AL109985, AC005921, AC005081, AC005088, AC007541, AC002072, AC005527, AC002351, AF111169, Y18000, Z98304, AC007227, AC007537, AC005377, AC009275, AC007388, M30688, AC004382, AC007051, U78027, AC007308, AC002470, AC005777, AF205588, AL035422, AC007792, AC020663, AC007057, AL049872, AC002350, AL030996, AL021937, AL050348, Z94802, AF196969, AC005255, AC004033, AP000509, AC004264, AC002073, AC002519, AL121748, AL022327, X54486, AC003027, AC005500, AC006965, AC007384, AC004686, AL022316, AC006441, AC005265, AL031602, AC004217, AC005544, AL049712, AC006486, AC005531, AC005913, AP000067, AC005231, AL031577, D00591, AC008079, AC004865, AC005291, AC006241, AC002554, AL049760, AC004522, AC004706, AC004990, AL034376, AC005625, AE000660, Z86090, U91320, Z75407, Z82244, AC006327, and AC005082.
HCUBO67	9277	526489	1 - 261	15 - 275	AA533534, AA569471, AH34695, AW407578, TG0681, AL801482, AA760839, AW408047, AA630672, AA502991, U932599, F11718, AA224889, AW328202, AL048925, AL143051, F00504, AW270258, AW002350, AA829166, AC008115, AC005666, AC005800, AP000212, AP000134, AP000251, L44140, AF001548, AP000030, U95742, AL049872, AC007216, AC002312, Z68870, AC006042, AC005839, AC005231, AC002430, AC004517, AC007421, AC002306, AC007384, AP000047, AC005482, AC005520, AC005632, AC016025, AL096767, AF051356, AC005808, AC003665, U63721, AL022316, Z94056, AC005921, AL035685, AC005288, AC006275, AL135744, AL031282, AC005057, Z97053, AC001226, AC005562, AC004967, AP000115, AC004878, AP000553, AC007934, AC004216, Z54334, AL049539, Z98742, AL096763, AL109798, AL021155, AL035659, AL137100, AC005387, AP000152, AC005667, AL035400, AC004813, AC005886, AP000252, AC005005, AC004596, AC004685, AF196779, AC004458, AC002300, U91323, AC004707, AL022302, AC006254, AC006285,

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					N33622, AL658817, and AL1818024.
HCUBM73	9278	577294	1 - 442	15 - 456	W86247, W86303, and H70314.
HCUBM49	9279	722190	1 - 638	15 - 652	AL479068, F07564, H74309, H00154, N74027, AW084004, AA351808, N80390, D51809, AL473549, N47820, AA015948, AA454504, AA827383, AL699049, AL037006, AL004740, AA721998, AA757758, AA713735, AW151761, H83136, AL804519, AL902426, AL138065, AW193523, AA845825, T46997, AL745335, AA658179, H28464, H43183, AA385775, AA768179, N56933, CL4599, AW029565, AW019964, AA736713, AL860535, AL476460, AL143623, AL954464, AA662614, AL181319, AL039089, AA662989, AA326014, H47736, AA372231, H27788, AA652771, CL4880, AA434346, AL357815, AL928890, AA482323, AL018726, H90845, AA427808, AA357979, AA653291, AL040273, AA297496, T03928, AA862029, AL126271, AA525407, T03401, AA831801, AL246061, D44998, N70027, AA832016, N75708, M78131, AL889426, AL1819391, AA513884, AA340035, H77442, AL123398, AA371410, AA506952, T69899, AA741301, AA678616, AL131261, AA569220, AL583801, AA515351, AL683019, AA595656, R87135, AA218874, AA084950, AL798242, AL254781, T60940, AL219606, AL739125, AW069273, AL871691, AA665304, AA774006, AL207476, AA083681, AL088903, AA368201, N20034, AA636102, AA083839, AA847570, AA077796, AA533660, AA515172, T40550, AL039930, AA483043, AL829480, AA714073, AA744095, H61201, AW073498, AL118912, AL929410, AL736672, AW068580, AA827281, AA384911, T93930, AP000692, AL096701, Z94721, AC006332, AC000353, AC003026, U62293, AC005263, AL133245, Z83826, AL031597,

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HCUBJ45	9281	723364	1 - 385	15 - 399
HCUBG69	9282	757752	1 - 243	15 - 257
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					AC0053264, AC005899, AL079342, AC005089, AC004383, AL022336, and Z85987.
HCBUG43	9283	576468	1 - 369	15 - 383	AF540121, A4243711, and AA233056.
HCBUB289	9284	765987	1 - 525	15 - 539	T58148, and AG682937, AA601674, R31425, AA689285, AF783581, AW190781, R06346, AA922351, R10475, AA682937, AA601674, R31425, AA689285, AF783581, AW190781, R06346, AA922351, R10475, AA682937, AA601674, R31425, AA689285, AF783581, AW190781, R06346, AA922351,
HCBUE49	9285	723175	1 - 196	15 - 210	R10346, AA507745, AS167833, AW008089, AL345366, ALI10873, ALI189682, F31380, AW082559, T39596, AA654661, AW410354, AW250983, AA664942, ALI70019, ALI041894, ALI69854, AA843779, AW103606, N22037, AA658327, ALI135262, F18721, AH468971, AU050050, AA527602, AW404225, AA441166, AW302048, ALI910608, H68563, AA837642, AF728812, AA583381, AA484639, ALI14827, TG6214, ALI590906, ALI335995, HS8883, HI17602, AA631480, AL630176, AA912287, AW708108, TI1828, AL253376, FI18553, AA633762, AA594072, AL026841, AI909130, ALI216990, AI537356, AA847121, ALI565585, ALI591375, ALI801479, AW020992, ALI682665, AI954125, ALI582463, AA832175, AA862243, AA527727, AI800180, AA351003, AA952543, AA601356, AI858691, AI580250, AA504694, AW168420, AW1188662, AA427470, ALI09801, U47924, AL049694, Z88323, AC006112, AC007066, AC005067, AC006512, Z99497, ALI034548, AP000300, I56088, AF141308, U89337, AL022163, ALI035462, AC004222, AP000146, AC007546, AC005939, AC005933, ALI008732, ALI021878, AC003071, AC004526, ALI030995, AC006511, AIJ09610, ALI21657, AP001060, AC004690, ALI01672, AC004884, AC006312, AP000113, AP000045, AC003049, AC007666, AC002563, AC008134, AL096791, Z69705, AC004754, AP000246, ALI17352, AC007277, AC004106, AC005839, AL049765, AC007421, AP000208, AP000130, AP050154, ALI031848, AF207550, AC006946, AC005796, Z84480, ALI014333, ALI031584, AC005725, ALI035698, AC007227, AC009247, AC002527, ALI080243, Z81450, AP000247, ALI079342, AC004652, AC006947,
HCBUE22	9286	409828	1 - 714	15 - 728	

					AC007382, U78027, AL034417, AC005058, AC004531, AC007298, AC005261, AC005071, AC004687, AL096775, AB020866, AL109914, AL022316, AC002381, AC007225, AC004211, AC006116, AL031300, AC004076, AC004996, AC002431, AC007917, AC007551, Y11107, AC007057, AL049872, AC005512, AL009181, AC004012, AL031293, AL031682, AL008629, AC007182, AC003043, AC005911, AC000701, AL031316, AL049569, AL109627, AL008719, AC007766, AC000052, AC004386, AC000004, ZS8596, Z69376, AC005914, AC004918, AC004231, AC004241, A011804, AC003007, AC004019, AL121778, AC002407, AL008582, AL049643, AC002416, AC005288, AC005972, AC005005, AC005215, AL035086, A97168, A97248, U08236, AC000092, AC005490, U07562, AL031321, AC005324, AC005746, AC007686, AC002045, AL049824, AC002316, AL035408, Z98304, AC005295, AB019437, AC005632, Z98743, AC004084, AL109798, A97210, AC005920, AL050318, AC004617, Z83840, AC006077, AL133289, AL031767, Z86090, AC004707, AC008115, AC005193, AL121852, AL078638, AC006125, AC007685, AP000495, AC007676, AC005266, AC002984, AD001527, AC005781, AC004057, AC006388, AC006000, AL034379, Z93024, AL031983, AC005372, AL049713, X83822, AC004802, U73023, Z82182, AL035209, AC007360, AC003042, Z98200, AC004701, AL135783, AC005701, AC004857, AC004585, AC006539, AC007216, Z97630, AC005786, Z82189, AL109827, AC004854, AC005502, AC005257, AC004152, AC007292, AC003070, AL096802, AC005162, AC006476, Z98044, AF047825, AC009501, AC007371, AC007842, Z98048, AP000104, AL008731, AC005808, AC004814, Z93023, AL080286, U50871, AC003112, AL021397, AC005239, AL024494, AC003987, Z82178, AL021453, AP000023, AL034555, AL078472, Z97876, and A246003.
HCUBB68	9287	752247	1 - 596	15 - 610	N73144, N53783, H78605, AA354792, AA114131, AA642051, R91175, H78687, N94134, AA179974, AA131083, AF155118, AC007731, AC005500, AC007536, Z97192, AC004526, AC006064, AC004702, Z82179, AC011592, AC007276, AC005284, and AC002064.
HCUBA93	9288	792515	1 - 514	15 - 528	AA190994.
HCUA201	9289	917266	1 - 325	15 - 339	AA08349.
HCUAW03	9290	974897	1 - 414	15 - 428	A1216081, AF150368, and AW264157.
HCUPA34	9291	706426	1 - 204	15 - 218	T95118.
HCUAN95	9292	796010	1 - 224	15 - 238	AL601207, AL225250, and F03622.
HCUAN89	9293	574275	1 - 129	15 - 143	AL672824.
HCUAN53	9294	728364	1 - 151	15 - 165	AA299020, AL459177, H70146, AF196969, AC007382, AC005088, AL133163, AL031668, AF030453, AL035086, AL135744, and AP000553.
HCUAM65	9295	887470	1 - 509	15 - 523	AA527109, F32749, AC006064, AC005156, AC003108, AC002477, AC004834, AC002425, AC005011, Z74739, and AC008079.
HCUAL33	9296	702677	1 - 345	15 - 359	T86948, AA677953, and AA778938.
HCUAG10	9297	968229	1 - 154	15 - 168	AA150568, and AC005781.
HCUAF80	9298	862171	1 - 256	15 - 270	AA621980, and AA621989.

HCUAFO1	9299	850153	1 - 405	15 - 419	AL080243, AC0059711, AC004216, Z85987, AL117258, AC005581, AL031659, AL049636, AL049569, AC004491, AL131363, AC005086, AL008721, AC004534, AC005089, AC005229, AC002350, AL031255, AC007546, AC012384, AL096791, AL034420, AC005702, AL034429, U91323, AC007688, AC005972, AC006121, AF047825, AC008119, AC006966, AF196779, AF001552, AC007193, AC008115, U91321, AC003035, AC002994, AL035249, AC004638, AC005237, and AL121652.
					AA017432, AL109211, AL168308, AL148392, AL206862, AL361394, AT761755, AL181738, AW005028, AL134347, AA243557, AA954313, W31550, C21014, AC005410, and AC005209.
HCFOP90	9301	862572	1 - 625	15 - 639	AA593533, AL284640, W95976, AL1754955, AL431303, AL046409, AT75702, AL160159, AW406755, AL281881, AW303196, AL270117, AW193265, AW301732, AL061927, AA828704, AA526787, AL350211, AL149478, AW274349, AL679132, AL053672, AL619997, AA177061, NS3150, AA535661, AW088202, AW276827, AA469451, AL305547, AW021583, AL041706, AL570261, AL744995, AL334443, AL345634, AW029038, AL537955, AW193432, AL962050, AL249997, AL696793, AA587604, AL471481, AW148792, AL688846, AW265385, AL338950, AW438643, AW162049, AW261871, AL292531, AL085719, AA720702, AL367975, AA578934, AW270270, AL634384, F36273, AL370074, AA525190, AA491762, AA708678, AA826303, AL821271, AL564496, AW276435, AW073470, AA984708, AA507547, AA367986, AL457397, AL19265, AL732120, AL307201, AL041690, AL917271, AL298710, AA584201, AW072923, AA629992, AW238278, AW188484, AL192631, AA482711, AA649642, AL099938, AL1499503, AL138265, AW162489, AA657835, AW157005, F34498, AL801591, AA491284, AL358501, AL871722, AL434695, AL037683, AL289067, AA514737, AL446464, AL375710, AW408643, AA126051, AA126035, AL138455, AL799642, AL200051, AA130647, AL370094, AL564185, H88666, AA847499, AL038606, AW169537, AA665330, AL047043, AA682912, AL587583, AW340844, AL679782, AL358571, AL587565, AL143242, AL246796, AL590772, AL041619, AA559290, AL046205, AL254615, AL312309, AW089322, AW339568, AA577906, AL379719, AL038785, AL754658, AW072587, AL371905, AL287651, AA515751, AA24357, AL044940, AW083402, AL357288, AL908687, AL133164, AA992126, AW406162, AL761471, F29702, AA488746, AL076616, AL537506, AL184226, AL110770, AA226715, AA837084, AL341665, AW168342, AA362573, AL334435, AA515905, AA613345, AL148277, AL042853, AA486559, AW020992, AW270382, AA350859, AL355224, AA426277, AL267818, AL737375, H93144, T07451, AA613227, AL302155, AA551503, AA654771, AL985038, AA653618, AA557686, AA490183, AA502866, AL246119, AL603062, AL358431, AL064864, H49822, AA084070, AA730362, AL539563, AL625244, AL282832, AL119691, AA856954, AA433333, AA483223, AL286356, AA581903, H52161, H00934, AL674873, AA503473, AL120687, AL291124, AA669840, AL282310, F03525, AL168185, AA631507, AL135724, AA348311, AA579179, AA601388, AW410400, AA610491, AC005785, U18391, D83989, U18394, U18399, X55931, U57009, U18395, X55925, U18396, X54181, X54175, X53926, X54180, U18393, I51997, U18392,

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HCF0025	9302	678200	1 - 543	AA234280.
HCF0001	9303	916687	1 - 410	AA776383, AA429932, AL035454, AC005736, U91326, AC006312, and AL034420.
HCF0N45	9304	850372	1 - 979	AL122618, AC004815, AP000010, AC005255, AC004812, AC006974, AL049691, AL031289, AB023049, AC000397, AC006344, AC006312, AL022313, AL035685, AC003043, AC005383, AC006966, AC004866, AL109984, AC000353, AC006205, AF196779, AC007664, AL009174, AL121825, AC005346, AP000260, AC004491, AC000052, AC003102, AC008033, AL023807, AL049709, AC004876, AC004150, AC004638, and AC007637.
HCF0F34	9305	955905	1 - 441	AL1469974, N64084, AW249948, AL188930, AA585834, F33853, AA621968, AL344766, AL887574, AL340954, AL017298, AW087878, AL951753, AW001459, AL130844, AL1610421, AL1859074,

					H95242, AA1172161, AI1888638, AI817694, AI366890, AI026962, AW148873, AW372205, AW439756, AI7992120, AI339271, AI67802, AI565761, AI422942, AI815783, AW029098, AW130765, AI640433, AI392827, W67741, AI421758, AA564386, W77958, T49431, AA886636, HI9721, AA931069, AI587063, AI538865, AA911757, AA844319, HI0384, AI024999, AI205206, AA907497, AW191862, W45437, AA854454, AA827211, AI357050, W58732, AA864255, F24893, F36657, AA600782, AA319276, AI302198, AA134930, T40697, AA939271, AI339101, AI268568, AI268513, AA676629, AI424652, T23067, W72214, W67761, T15455, AW078588, AI015096, AA652639, AW009699, RA1394, AA858041, T91991, T39608, AI863868, AA236441, R69121, AW075784, N85194, AA686235, W17051, AI568256, AA555128, AW191881, AA130364, AA600778, AA725773, AA808374, AI691156, AA552013, AI780860, T39610, AA586795, AI833065, AI701299, AW383883, W52014, AA863193, AA984388, W74143, AI34015, AW295572, AI039378, F32010, AA827556, AA832110, AI827029, AA737632, AA748445, AI283017, AI723536, R41283, H60450, AA052977, AI358413, AI334792, AA009996, AI452830, AI375377, AI248684, AI092250, AA642323, AA847164, AI359493, AI990198, AW088914, AA349440, AI674436, W85690, W80752, AI567578, AW003662, AA515597, AW024419, AA789190, AI955939, AA548671, AI347012, AI357262, AI659567, AA769657, AI689260, AA872184, AI824151, AA701479, AI973118, AA279182, AA838044, AA614311, AI955325, AA076347, AI625537, HI7419, AW245328, AI801747, AI955399, AW072450, AI571032, AA642219, R17919, AI832421, AA069177, F13645, AW245586, AA548861, AW083759, F34935, AI137377, AC004472, M30143, AF122048, and AF100752, W84708, AI936823, AW137973, N68257, AA443187, AI417796, AA657780, HI89014, HI88792, AA586672, AI044918, and AI117474.
HCFNQ62	9306	745755	1 - 470	15 - 484	AI824052, AA036889, W81555, AI694971, AI863745, AI864321, and AA036888.
HCFNP09	9307	961149	1 - 659	15 - 673	AW007318, AI949612, AI497946, AI628977, AI119391, AW392670, AI119443, AI119497, U46351, U46349, U46347, AI119324, AI119319, AI119522, AW363220, AW384394, AI119483, AI119457, U46350, AI134527, AI119484, AW372827, AI119444, Z99396, AI119439, AI119363, AI119355, AI119418, AI119401, U46346, U46341, AI119341, AI119335, Z84480, AC004609, AC006313, AR060234, AB026436, AR066494, AI81671, and AR054110.
HCFNG63	9309	745148	1 - 232	15 - 246	AA515905, AA507824, AI355206, AW023990, AA603445, AA580808, AI732120, AI284640, AA226305, AW276435, AW021583, AA658362, AW238278, F34498, AI860020, AA856954, AA613227, AI537955, AA680243, F01314, AW089322, AA908468, AA502155, AI133164, F17891, AA551553, AI564454, AA847622, AI863054, AI243584, AA092602, AI358571, X75335, D83989, X55923, U67829, U67827, M87922, M87891, U67828, AF077058, S42655, AC005523, AC005050, Z31000, AI023575, AI024507, AP000023, AC004257, AI133353, AC003663, M87919, AI035398, AC005288, AC008033, AI008718, Z98946, AI022324, AI031321, AC007406, AF010317, AC007731, AP000039, AP000107, AC005500, AI049692, AC006275,

HCFNG10	9310	848225	1 - 1653	15 - 1667	AC006480, AC005944, Z69707, AC005387, AC005081, AC007226, AL096791, AL050341, AF196779, AC004408, AF134726, AL020993, AL087266, AL078475, AC003030, AC005102, AC005730, AL031295, AC007676, AC008079, AB026584, AC007227, AC018633, AC004638, AC005832, U49740, Z98752, AF106202, AP000298, U96629, AC005529, AC005300, AC006004, AL022170, AL080317, AF000025, Z93241, AC008372, AL049776, AC004531, U91326, L26261, AC009516, Z84572, AP001065, AC000085, AP000694, U69570, AC007191, U91326, L26261, AC007386, AC006271, AL008719, AL022237, AC004837, AL008635, AC004230, AC003043, Z83822, AF039907, AL021878, AC005231, AF038458, AC005745, AL096703, AF109907, AF141309, AC002350, AC005218, L34079, AP000280, AC000353, AC000492, AL080242, AC004019, X71875, AF001549, AC005332, AC004856, AC006312, AC004652, AF015156, AC004821, AC003684, AC004675, AC002126, AC006512, AL132777, AC004039, AC005331, AC005703, AL109914, AL031280, AC002558, AP000557, AC005004, AC005754, AC006511, AL121754, AC004034, AL031577, AL096774, AL022163, AL008715, AL009181, AL096843, AC007919, AB003151, AC005623, AC004475, AC006536, AC004703, AC005399, AL031282, and AC012085.
					AA452506, W94343, AA488471, AA761766, AL271809, AL673242, AW295352, AA211131, AW084027, AA211130, W94373, AL972578, AL675734, AA211710, AL657152, H93180, AA442937, AW197446, AA436769, AA385636, AA033875, AA421160, AL650629, AA417770, AA306761, AL054242, AL261197, AA829487, AA417236, AL335132, AL053468, R29693, W94372, AW020931, AA715307, AA809974, AL540890, AL121270, AW020592, AL121328, AW019988, AL923509, AW023863, AW021178, AW020425, AL879064, AL624543, AW189802, AL557238, AL525653, AW020406, AW021777, AW021693, AW019985, AW020328, AW022826, AW022299, AL064830, AW023351, S68736, and A91160.
HCFNB09	9311	625697	1 - 191	15 - 205	H49917, and AC007537.
HCFNA77	9312	874777	1 - 265	15 - 279	AL041196, AL347284, AA861637, W02835, AA863177, AL818167, AL248206, AA987274, AA338877, AL199674, N29825, AW131788, AL953166, AL567464, AL025214, AL885412, AA568780, AL174734, AW138007, AW007757, AA193266, AW027175, AA614090, AL046529, AW058096, AL278213, AW169713, AL571295, AW083404, AL873719, AA864580, AL471327, AA603136, AL383280, N70535, AA255990, AL091040, AL763223, AA761693, AA309912, AA826815, W05581, AA229402, AA229290, AL631521, AA861300, AL069567, AL373276, AW059713, AA256252, AW020876, AL376180, AL468873, AW020940, AW081231, AL923768, AL19817, AL373622, AL828734, AW008737, AL627893, AW243619, AL354627, AL610115, AL918376, AL874243, AW084117, AL932818, AL633308, AL742068, AL738660, AL50474, AL679211, AA848053, AL922278, AL334820, AL570989, AL619485, AL583308, AW055081, AL247298, AL933783, AA766618, AL583065, AL828806, AL122045, AF047443, AL122049, AS7389, U94316, AL080156, B01582, S61953, A27171, AL133049, U49434, AL118070, AL137539, AL133624, AC007458, AL137300, AL82215, AL31955, X95876, AC05965, D00174,

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HCFNA64	9313	850391	1 - 523	15 - 257		AA424916, and AF783939.
HCFNA21	9314	671021	1 - 244	15 - 258		AA640305, AA595661, AA493464, AW275432, AL224583, AA601376, AW021674, AA425283, AI051670, AA669238, AI086603, AA102054, AA084439, AI690379, AA604601, AI355246, R43468, AI754064, AI926102, AI732501, AI791457, AA526415, AA180056, AW104161, AW151541, AA747234, AI791659, AI521525, AI702049, AA313025, AW023390, AW265468, AA847504, AI433952, AA199578, AW151247, AI590442, AA573067, AI090377, AI865087, AI524453, H82636, AA559219, AW020150, R42954, AA525753, AI095377, AI55227, AA019973, AI267416, AA602105, AI801563, AI568376, AA603359, AI0174703, AA649641, AI753904, AI056566, AA491827, AI267269, AA831426, AA489390, AI048969, AI065031, AA054085, AA582073, AA101265, AA018207, AA013168, AW192419, AW148821, R22196, AW264245, AI926104, AA084609, AA598443, AA664963, N95424, AW277093, N23893, AA493808, AW327801, AA642809, AI344906, AA746951, AL042282, AW410361, AA298365, AI572680, AI431442, AA083003, N29105, AA570255, AA586474, AW057760, AA515048, R62701, W04238, AI887468, AA703818, AA601712, AA767942, AA584765, AL041375, AW028089, AW072963, AI251024, AI753131, AA832357, AA515165, AI121039, AW084173, AI859368, AA228274, AW238341, AA666295, AI291437, AA661583, AA689331, AL037067, AI803809, AA502022, AA533066, C14614, AA502532, AL119010, AA128511, AF1760835, AI299445, AA801558, AA507623, AI732120, Z84466, AC005800, AC007216, U95742, AC005940, U91318, AC002312, AC006236, AL031284, AC004125, AC003041, AC004910, AL096763, AL080243, Z97184, AC005971, AC003042, AC005225, AC004895, AC005189, AC004821, AC007546, AC002301, Z86090, Z83826, AC003108, AC004973, AP000359, AB023050, AI020993, Z95114, Z93244, AC006121, AC002347, AF111168, AF047825, AC007050, AL031594, AC002544, AP000311, AC006241, AC003010, Z93017, AC005104, AF030453, AC003030, Z96074, Z98044, AC005553, AF196969, AC007052, AC005484, AC007437, AC005231, AP000555, AC003043, AC004962, AF217403, Z98200, U85195, AC016831, AC005911, AI022476, AC002476, AL049776, AC007225, AB000658, AL109963, AC007308, AC016027, L44140, AC005632, AC005082, AC003101, AL049757, X55448, AC006449, AC006538, Z84480, AC006441, U52112, AL109827, AC005696, AC005736, AC005703, AC007041, AC008132, AC004797, AC005037, AL031662, AC006251, AC004598, AC002091, AL035398, AI022334, AC006132, U95739, AC004000, Z82215, AC004663, AC002429, AL031123, AC007676, AL121754, AL021392, U82668, AC016830, AC002314, AC004605, AI135744, AL079295, AF001549, AC006312, AC005102, X62355, AD000812, AC005207, AC009247, AC004911, AL121825, AF196779, AL008637, AC006115, AC004217, AC003007, AC002996, AL035425, AL009051, AC005520, AL031427, AP000558, AC006167,

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HCFMZ90	9315	922112	1 - 867	15 - 881	AA099896, W39462, W93311, AA704134, AA102091, AA934684, AA570036, AA973597, AL984459, AA503779, AW073912, AA080602, AA149171, AP984559, AA832300, AA374289, AA651931, AB206677, AA149172, AA715137, W49455, AA046081, and AB377362.
HCFMW71	9316	920506	1 - 631	15 - 645	AE923217, AB184569, AB04682, AB762903, AB046663, AB143304, AB082030, AB139520, AB191904, AW274978, AB183410, AW450838, AB126343, C15320, W93273, AB198971, AA680119, AB823928, R92413, W93272, R92414, T96093, AB126344, TS1116, T96094, TS1024, AB22647, AB69077, R42713, C00216, AB141425, AB936703, and AA197141.
HCFMU01	9317	916695	1 - 548	15 - 562	AA736920, AA731293, AB243231, and AB369520.
HCFMP46	9318	463278	1 - 565	15 - 579	AA243868, AA455601, NS3291, AA678242, and AW363661.
HCFMO47	9319	881505	1 - 357	15 - 371	AF131284, and AB021227.
HCFML02	9320	920349	1 - 613	15 - 627	AW207866, AB199278, U63312, and U81833.
HCFMU37	9321	955281	1 - 644	15 - 658	AB17763, AB038708, AL035739, AA084554, RS2491, AB16532, AB750581, AB903894, AB21494, Z41981, R13337, AA322574, AA448043, T26420, AA461375, AB903843, AB792383, and AB161445.
HCFMH46	9322	719113	1 - 342	15 - 356	AW239548, AB373232, and AA323059.
HCFLY85	9323	909182	1 - 508	15 - 522	AB342241, AB740877, AA262686, AB949440, AA011068, AA281890, AA283910, AA527101, AA250824, AB402440, and AA255646.
HCFLY53	9324	727465	1 - 616	15 - 630	H93046, AA897108, AB652046, T88896, NG6815, AA761626, and Z82188.
HCFLY08	9325	959620	1 - 926	15 - 940	AA485570, AA485409, AB58623, R22065, AA639708, AB134139, AB031678, AC004491, AC004985, and Z99716.
HCFLY30	9326	692781	1 - 448	15 - 462	T89518, N91297, R05742, N78236, AA281577, AA505098, and AA282794.

HCFL186	9327	785560	1 - 546	15 - 560	AA002042, AA001671, AA001672, AA094015, AC009263, and AR068552.
HCFLM03	9328	850403	1 - 488	15 - 502	T64674.
HCFL103	9329	850406	1 - 823	15 - 837	AA984238, AA525888, and AA523391.
HCFLK10	9330	964792	1 - 760	15 - 774	W31316, AA019148, and AC004706.
HCFLB24	9331	502414	1 - 421	15 - 435	AA568314, AA610433, AI090334, AI871691, AA629679, AL044339, AA515677, AA846923, AI799421, AI049701, AI368732, AA523833, AA173334, AL039309, AI751191, AI08386, AI089016, AI821722, AI1421, AI732162, AI557422, AW265688, AI049630, AI821172, AI125167, AA662614, F31811, AA663074, AL046746, AA984829, AI792063, AA706202, AA586646, AA130647, M78021, AA862029, AA229988, AW272640, AA610255, AA368012, T48809, AI130709, H96146, AI536858, AW089950, T41134, AI457389, AI537995, AI719142, AI158549, AI814682, AW190277, AI636734, AA564682, F31867, AI291439, AA524846, AW023111, AA481760, AA654482, C60628, AI302156, AA020882, AI054339, AA715351, H24957, AA728861, AA807704, AL079734, AI564301, H67064, AW166920, AA856817, AA557945, AI802526, AI783911, AI671077, AI114494, AL134332, AW166920, AA856817, W63553, AW151935, AI160786, AA434078, TI7332, AA384064, AA599080, AIW188742, AA323085, H40478, AA371580, R70883, AW419389, H43183, AA368329, AA569089, AI907046, AA126633, AL426777, AA598663, AI942786, AI300413, AW148775, AA326330, AA371410, AA102737, R83585, AW381823, AI376454, AA828463, D51877, H54601, T65895, AI431513, H58393, C18779, F08866, AW162750, AA595504, AI301373, AI929796, AA702618, AA357878, AA315361, AC005015, Z93016, AC005081, AP000512, Z83844, AC004458, AC004796, AC006966, AC004033, AC005189, AC006946, AP005477, D84401, AL035400, Z95116, AP000538, AP000501, AL139054, AL049776, AC005102, AL031666, AC002477, AC005519, AL031055, AC003070, AC005180, AL031281, AC005088, AC005529, Z98200, AL008725, AC003950, AL031311, AL021391, AC005089, AL034429, AC004884, AL136295, AC002301, AL031432, AC002312, AC007376, AC002300, AI003147, AC003692, AC004815, AL096701, Z95115, Z68277, AC002425, AF11168, AP000667, AC005702, AL034417, AP000557, AC005046, AC005500, AL049869, AC004686, AL022476, U91326, AL008582, AC002550, AP000503, AL031587, AC005412, AC005280, AC005911, AC006251, AL031230, U85195, AC006241, AL049694, AL049636, AL109839, AL022329, AF134726, AC009516, AL109827, AC005193, AL031681, AC002565, AC002400, AC007386, AC005049, AL031280, AE000658, AC004650, AC004905, Z68870, AC004216, AC004791, AC005197, AC005332, AL031228, AC000353, AF030453, AC006064, AC006511, Z98304, AC007842, AC005520, AC002357, AC005839, AL050348, AC005094, AC002351, AC005696, AC005800, AF001549, AC0005484, AC008009, AC002039, AC004953, AC005736, Z93930, U96629, AL020993, AC000379, AC006132, AF047825, AC004832, AP000065, AF196779, AC005209, AL034555, AP000116, AC003101, AC007546, AC004881, AC007160, AC006538, U82828, AP000553, AF196970, AP000689, AP000210, AP000129, AC004659, AL035438, U80017, AL121825, AF064861,

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HCFCV32	9333	850413	1-528	15-542	AL826505, AL810842, AL970815, AW236631, AL400419, N66238, AA035566, and H96744. AL110497, AA362532, AC007425, AC004953, AP000311, AP000193, AC006014, AP000177, AC005251, AL080243, AC007999, AC006071, AF196969, AC005488, AC005659, AC004841, and AC002349.
HCFCPT77	9334	772256	1-366	15-380	AL765236, AA806370, AA836325, AL590659, R39398, AA411920, AL807770, and T10620.
HCFCM75	9335	850435	1-453	15-467	AA513181, AA513141, AL917156, AA491814, AL754955, AL198376, AA714453, AA652764, AA581903, N25296, AL281881, AL133723, AL367497, AL061334, AW088058, AL246119, AW276435, AL298710, AL358343, AW301350, AW303196, AW274349, AL471481, AL1537288, AA837677, AW057877, AL046409, AA515051, AA525190, AL610159, AW300625, AW338086, AL284640, AW406447, AL801600, AL624698, AL344844, AW166815, AA448231, AA452563, AW193432, AL287651, AL797919, AW303876, AL119984, F36273, AL350211, AA252763, F37169, AW419262, AW102955, AL431303, AA338486, AL375710, AL279165, AL148277, AL580652, AW162489, AW270270, AL860020, AL613280, AL890923, AL610376, AL688846, AL053672, AW193265, AA503258, AW276817, AA557686, AL796627, AW104748, AW022379, AL355206, AW168342, AL830390, T40617, AW276827, AW162049, AL929531, AL041706, T08638, W95841, AL471543, AL887483, AL049634, AL049722, AA451612, F18974, AA340747, AL19691, AL697208, AL44330, AW029038, AL653886, AL469172, AL474772, AL814735, AL708009, AL566794, AA643962, AA302963, AA649642, AA810318, AL043721, AA348311, AL266576, AA350859, AL358571, AL917683, AL339850, W07122, AA229814, AL499938, AA610491, AL962050, AD251002, AA594145, AA229931, AW151896, AW008317, AL334443, AL720702, AL674873, AW339568, AL454654, AL133636, AW261871, AA664407, AL619997, AA225155, AA515175, T07451, AL886164, AL305547, AL249997, AL633007, AW080134, AL120687, AA608616, AA062722, F03097, AA364224, AA653618, F30933,

AW088202, H86301, AA452744, AL038474, AL291268, AW341892, AA134367, AL291124, AL625244, AW406659, AA177061, AL043756, AL287451, AL575551, T06828, AL341664, W79504, AL120674, AA713815, AL252554, AP37850, AL567674, H70615, AL133986, H37777, AL446464, AA719805, AW021583, AL537955, AW440836, H64765, AL828738, AL904894, AW438643, AW302013, AL1889923, AL041733, AL101626, AA810370, N71930, N91994, AW265385, AL824562, AL133164, AL289067, AL270117, AW406162, AA758934, N26137, AL138265, F18638, AP951863, AW265393, AL193007, AL561255, F29702, AA113186, AA099892, AL367975, AL343137, AL57397, AL281697, AA664535, AL754638, H83616, AL120269, AL866908, AL732186, AL371070, AA532877, AA827981, AL471464, AL340453, AL501552, AL623898, AL434311, AL273185, AW238542, AL133333, AA553465, F33121, H72402, AA598586, AA488395, AL564454, AL699003, AL679782, AL053790, AA630030, F10924, T03772, AA843450, AA514737, AW265009, AL079812, AC006001, AP000359, AL117258, AL049829, AC009405, AC010382, AL021068, AC005297, AL021368, AC000022, AL035423, AL21754, AF164343, AC004891, AL049588, AL049780, AC007055, AC006120, Z84487, AL049759, AC007214, AL049836, Z83845, D87675, U85195, AL034402, AL049562, AL109733, AF117829, Z85987, AE000658, AC004519, AC002422, AL049569, AP000567, AC010168, AL121871, AC009501, AP000959, AC005274, AC002038, AL024505, Z80899, AC005922, AC004804, AL109939, AC005301, AC009509, AL109837, AP000548, AC005736, AP000689, AC005722, AC004140, AL031277, AL031280, AL009179, AC007227, AC007878, AL006996, Z99716, AC004963, AC002418, AC007043, AP001068, AC002375, AP001170, Z93016, AC005771, AC004053, AL109654, AC003684, AC005730, AL022328, AC006207, AL121658, AL132800, Z84480, AL008718, AL008722, AL049766, AC006016, AC009479, AC010072, AL023875, AC004070, U85198, AC002310, AB003151, AC006254, Z92542, AC006222, AC006371, AL049712, AC006241, AC005153, AL121603, AC005102, Z98046, AC004386, AC005548, AC004855, AC003087, AC005529, AE000661, AP095855, AC002994, AC005969, AC004966, Z82216, AL109753, AL024509, AC004629, AC005527, Z80771, AC004531, AL135744, AC007262, AL011930, AC003982, AC005839, AF165175, AL035494, AC007792, Z84814, AL035416, AL049554, AC011604, AC003003, AC004815, AC003986, AC002463, AL022315, AL035249, AC007908, AC008109, AL031670, AC006210, AC005666, AC006946, AB023054, AC006996, Z83821, AF114156, AL020991, AC005829, AL049745, AC005519, AL022725, Z84469, AC007358, AC005295, AC003951, AC004000, AC007388, AL078602, L78810, AL034369, AC004019, AL121757, AL023799, AL109662, AC011362, AC005632, AC007686, AL136297, AC008079, AC007540, AC004895, U91319, AL034449, AC004583, AC005213, AC006343, AL078612, AL022161, AC007551, Z93930, AL049699, AF200465, AL239322, AC005188, AL031846, AL109984, AL049835, AL049743, Z83846, AC005261, AC006160, U92032, AC002301, AC006576, AC004914, AL078477, AP001037, AC007066, AC005081, AL121653, AC004502, U07000, AC007225, AL050308, Z75741, AC005562, AC006157,			
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HCFC2K25	9336	494159	1 - 529	15 - 543	<p>AL031230, AC0010175, AC002430, AL031650, AC005379, AC000025, AC002036, AC005692, Z97206, AC004081, AC007064, AC005535, AC004485, AP000501, Z97055, AF042091, AL021367, AC007384, AC004527, AC007298, AC003385, AL006861, AC006277, AC004884, AL133500, AC005244, AL022396, AL031673, AL034384, AC007421, AC006480, AC006026, AC002128, AL0010849, AL033397, AC004685, AL121825, AD001527, AC004949, AC008018, AC005701, AC005620, AC002412, AC005598, and N25671.</p> <p>AL042420, AL134524, AI590906, AI357823, AI284126, AI129746, AT92133, AI110844, AA632757, AT91913, AI961983, AI417469, AI923052, AW303872, AI369580, AI343169, AI358712, AL034351, AL037632, AI118573, AI167055, AC008115, U00017, AC000052, Z93930, AF196969, AC004019, AL021397, AF134726, AC004878, AL031283, AC002400, AC004522, AL022322, AC004765, AC006064, AL139054, AC008101, AC001134, AC007686, AC002519, AF190465, AC005288, AC002316, AC009516, AC005529, AC006001, AF129756, Z83844, AL135744, AC005484, AP000030, AP000553, AL031284, AC004876, AL050348, AC002470, AC004963, AC006277, AL023807, AP000558, AL022320, AC005180, AP000251, AP000008, AC000025, AC005755, AL031848, AL035681, AC007066, AC005488, AC003982, AC005086, AC002425, Z99716, AP000248, AC004832, AL022476, AL020397, AL031311, AC004922, AP000131, AP000209, AP000691, Z93017, AP000704, AP000493, AC005295, AC007371, AP000692, AC005102, AL035071, AL021393, AC005841, AC0016830, AC009247, AL096774, AF053356, AC004967, U91321, AC006468, AC000353, AL021154, AC006965, AC002369, AC005786, AC005837, AL049874, AP000133, AP000211, AL050341, AC002350, AP000555, AL049760, AB003151, AL031295, AC004812, AL035423, AC009044, AL031680, AC002091, AC005015, AC003029, AC004217, AC004859, Z83822, AC005914, AC005736, AC005519, AC004598, AC004991, AL031602, AF205588, AC007537, AE000662, AC003102, AD000092, AC003101, AL009181, AC010206, AC007546, AL049589, AC004638, AC005514, AC005215, AC002544, AL049795, AC002115, AL021155, AL096791, AL031228, AP000088, AC007919, AC0016831, AC006211, AF001549, AC002559, AC006013, U62293, AC007226, AC005527, U91323, U63721, AC005696, Z95113, AL049779, AC006312, AL022315, AL080243, AC004656, Z98051, AP000210, AL000132, AJ246003, AC007666, AC002984, AL022330, AC005821, AL035659, AL022237, AL021977, AC006130, AC004821, M63796, AC006014, AC005067, AC005274, AC005971, AC005666, AC005588, AP000510, Z97630, AC002301, U95740, AC004999, AC005071, AL035458, AC004230, AC005399, AL034429, AP000140, Z73417, AL035249, U91326, AC006117, AF111169, AP000104, AC005778, AL034417, Z98752, AP000556, AC005412, AC010205, AL031659, AJ003147, AL050321, AL121603, AC007842, AL031390, Z93241, AC005844, AP000112, AC006538, AC006101, AF118808, AC004000, Z98048, AC005480, AP000116, AC005081, AC005291, AF109907, AC008009, AC007425, AC005952, AL096773, AL035462, AF038458, AC007055, AC005603, AC007192, AC004858, Z97056, AF196779, AC004491, U91322, U07562, AL096712, AF217403, AL008730, Z85987,</p>
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HCFCG23	9337	850426	1 - 235	15 - 249	
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HCFC76	9338	973808	1 - 636	15 - 650	AC005630.
HCFC10	9339	964782	1 - 493	15 - 507	R53757, H86838, R92462, A1032557, and A1238093.
HCFCX86	9340	844884	1 - 812	15 - 826	H73824.
HCFCBQ30	9341	692787	1 - 538	15 - 552	H48509.
HCFCBM75	9342	766599	1 - 440	15 - 454	
HCFCBM41	9343	711631	1 - 760	15 - 774	
HCFCBK28	9344	706243	1 - 399	15 - 413	
HCFCBK04	9345	925601	1 - 729	15 - 743	
HCFCB151	9346	670066	1 - 534	15 - 548	
HCFCBA94	9347	698647	1 - 588	15 - 602	
HCFCZ12	9348	970609	1 - 333	15 - 347	

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HCFAP08	9350	959714	1 - 277		Z43308, and F06087.
HCFAC38	9351	576723	1 - 563		
HBVAB02	9352	971578	1 - 371		
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HBUA23	9354	847698	1 - 342	15 - 356	AI134194, and AA211828.
HBTA84	9355	781946	1 - 387	15 - 401	H65948, and AA522538.
HBMXU73	9356	953898	1 - 687	15 - 701	AI912940, AI356880, AA768753, R38430, AW026385, AI094990, AA417714, AI521674, AI911847, HI7932, AA603061, AA152297, AI469372, AI038106, R65634, N71126, AA602303, N47801, AI445560, HI0196, AI566092, AA131931, N39095, N57531, AI537013, AI951484, AI972988, AI141578, N34391, AI867900, AA830221, AA058539, AW057639, AI703292, AI866150, AI393673, AI307808, AI129217, HI1742, Z39045, T24056, F01755, R03814, R36084, AI471051, R51266, R42298, H07915, AA412728, F01735, AW170333, and C01600.
HBMXS23	9357	675254	1 - 442	15 - 456	T56838, H47055, AI097490, T48207, H47127, R06541, T48206, and AC000393.
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HBMXG10	9361	968055	1 - 362	15 - 376	RI13146, and AC006960.
HBMXF73	9362	764551	1 - 463	15 - 477	H71766, and AL050032.
HBMXW13	9363	955208	1 - 435	15 - 449	AI690702.
HBMXW575	9364	767440	1 - 425	15 - 439	R00589, and Z84467.
HBMXW62	9365	754059	1 - 466	15 - 480	AA179886, AI124981, R68627, and AL079296.
HBMXK06	9366	936088	1 - 236	15 - 250	AA608586, and AI863209.
HBMXW28	9367	685443	1 - 375	15 - 389	RI1487, AA668261, RI2375, and AA905206.
HBMXW35	9368	706034	1 - 645	15 - 659	AA001457, AA015999, and AF062922.
HBMXV026	9369	546495	1 - 290	15 - 304	
HBMXV041	9370	712565	1 - 440	15 - 454	R60294, and AC005007.
HBMXV33	9371	702083	1 - 405	15 - 419	RI18185.
HBMXV85	9372	575418	1 - 208	15 - 222	H08388, AW452797, R61253, AI460322, AI039491, AA416798, AA609458, AI867411, AI631600,

HBMVGI8	9373	666855	1 - 571	15 - 585	AI206856, AI015080, AW004016, AI880436, Z41596, AI928117, and AA774212.
HBMVJ59	9374	933208	1 - 409	15 - 423	N80648, H87296, H95468, T96215, and AI630703.
HBMVD05	9375	932441	1 - 343	15 - 357	H77697, H77689, H77703, H69186, and AF165138.
HBMUW96	9376	574517	1 - 296	15 - 310	T73358, and AC006947.
HBMUW85	9377	783416	1 - 612	15 - 626	AI078644, and AC011311.
HBMUW58	9378	574513	1 - 202	15 - 216	RS1759, AA035757, AA159960, and AF110908.
HBMUW03	9379	847787	1 - 478	15 - 492	AC007539, and AC006560.
HBMUJ31	9380	456760	1 - 549	15 - 563	AA824413.
HBMUG39	9381	739509	1 - 497	15 - 511	AA429725, and AA281396.
HBMUG23	9382	425961	1 - 605	15 - 619	
HBMUD91	9383	789320	1 - 589	15 - 603	T84888, AA960882, AF051976, and AF144094.
HBMUB13	9384	950984	1 - 555	15 - 569	W01309, AA577113, AW292823, D20298, AI240027, F17130, T30300, AA744372, H75572, AW204120, and AA433861.
HBMIX71	9385	760605	1 - 420	15 - 434	H59274.
HBMIS23	9386	676310	1 - 385	15 - 399	R25977, Z45765, and AL008726.
HBMTR29	9387	847785	1 - 509	15 - 523	AA573319, AA634778, H56345, T92363, AI708233, H56344, T92415, and A90848.
HBMIM67	9388	751907	1 - 305	15 - 319	R24667, AI741100, AI689414, C14069, and AI031681.
HBMID69	9389	754179	1 - 469	15 - 483	R34775, and AI150382.
HBMIB85	9390	923730	1 - 432	15 - 446	W21033, AI924201, AA766826, AA888820, AI814342, AW001123, AW134874, AI366738, AA670436, AI935359, H42655, AI198343, AA665651, H42654, AF077740, Z97630, and AF093403.
HBMIB34	9391	706024	1 - 460	15 - 474	W86935, W86925, and U95626.
HBMISX3	9392	863883	1 - 493	15 - 507	AA256753.
HBMDS02	9393	920096	1 - 429	15 - 443	AA626212, and Z63877.
HBMIDN16	9394	661947	1 - 493	15 - 507	H06534.
HBMIDM25	9395	678127	1 - 586	15 - 600	H00140, and AA284312.
HBMIDL27	9396	683427	1 - 487	15 - 501	N52474.
HBMDF52	9397	727169	1 - 535	15 - 549	T63944.
HBMDD72	9398	879813	1 - 407	15 - 421	D58283, D80268, AW178893, D51072, C04682, D80212, D80188, D80064, C14014, C14389, H67854, AA809122, F13647, D59653, D51759, H67866, C15076, D80195, D80439, D58246, D81030, D51422, D80251, D57483, T11417, C03092, D80258, D80157, D81026, D59859, D80269, D80022, C14331, D80014, D80166, D80366, AA305578, D59889, C14973, D80196, D59467, D59619, D80133, D80247, C14227, D80210, D51799, D59503, D80391, D80164, D59275, D80248, D80240, D80253, D80045, D80038, D50979, D80219, C06015, D80043, D59787, D80227, D59502, D50995, AA305409, AW375406, D59474, D59610, D51221, D81111,

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HBMC230	9399	692733	1 - 516	15 - 530	W38346.
HBMC124	9400	677209	1 - 338	15 - 352	
HBMC109	9401	625627	1 - 653	15 - 667	R78567, R22348, A1138749, A1432160, and A1378357.
HBMC592	9402	792736	1 - 425	15 - 439	T89785.
HBMC555	9403	731802	1 - 597	15 - 611	AA252232, H30735, H30819, and AF085888.
HBMC235	9404	678164	1 - 988	15 - 1002	AA766345, AA258762, AA258882, and R87385.
HBMCQ95	9405	888393	1 - 359	15 - 373	
HBMCGB4	9406	783043	1 - 407	15 - 421	T80409.
HBMC20	9407	646279	1 - 595	15 - 609	AA160470, AA594945, A1047220, and Z98884.
HBMCB55	9408	731800	1 - 359	15 - 373	R09103.
HBMBX72	9409	911168	1 - 887	15 - 901	AA077388, AL043009, AF039185, AW243793, AA974503, AL079869, AL044339, AA078338, AL079812, A1567674, A008212, A099938, AL039996, A1732120, A0908687, AW102955, A1679782, A1582769, AL041706, A4563818, AA255853, AW406162, AA287570, AA680243, AL044340, AA884598, T74524, A1356440, A1110760, A1121235, AA578590, AL038842, A1799642, AW089016, AA349366, AA806796, A1635279, A1634695, A1917156, AA643434, A1053790, AW302711, D82290, A1144081, A1313166, AW276586, A1708009, C06151, AW301906, AW342042, AL044940, AL048925, AW302753, AC004878, AC005081, AC004895, AC010205, AC004134, AC003682, AC005488, AC002350, AL023553, AC006057, AL022165, AC008101, AF053336, AC003104, AL080243, AL121653, AC005783, L78810, AC005015, A1139054, AC008079, A1133448, AC005088, AC005399, AL034423, AP000557, AF001549, AC007731, AL049869, AC007371, U85195, AF196779, AC004882, AC004814, AC005520, AL022322, Z99716, AC002563, AL121603, AE000658, AC000025, AL050318, AC004883, AL022238, AL022721, AL096712, U95740, AC007055, AF134726, AC004796, AC004815, AC004217, AC006130, AC005940, AC005531, AC006511, AC006014, AC006571, AL096791, AC007919, AC007227, Z97630, AC004000, AP000350, AL049712, Z84487, AC007066, AC002404, AF088219, AL050307, AC009247, AC006285, AC002115, AL008582, AC000026, AC003500, AC004019, AC004832, AL035458, A1135744, AF165926, D87675, AL080242, AC005500, AC004542, Z98051, AL021154, AC002543, AC002303, AL022323, AP000690, Z93241, AC005606, AP005067, AC007324, AC004033, U80017, AC004638, AF111168, AL049776, AC006006, AP000045, AC006111, AL022311, AC008040, AP000338, AC006251,

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HBMBX64	9410	746633	1 - 599	15 - 613	RG4027, R39393, and AW262338.
HBMBX35	9411	668981	1 - 660	15 - 674	W02418, AW374577, H06101, AA478509, AA149906, N58721, T05803, AW374575, AW374603, AL038659, AF044588, and AR032001.
HBMBU52	9412	973805	1 - 541	15 - 555	AI962282, and Z98050.
HBMBN85	9413	783520	1 - 283	15 - 297	W79516, AA976168, AA344920, Z84487, AC009509, AC007546, AF031078, AF030876, AC004087, AC005520, AC007216, AC005479, AL035667, AC004531, AL133448, AC007993, AL121655, AL031584, U95742, AL031575, AF165926, AC005081, AP000553, AC005823, AL109984, AL133371, AL096701, AC004883, AC019014, Z99716, L44140, AC005837, AL132712, AP000030, AC004659, AL023807, AC005529, AC005231, AC006501, AC005015, AL031311, AP000555, AC005011, AF053356, AL022313, AP000134, AP000212, AF111168, AC007899, AC007687, Y10196, AC005225, U80017, AC000120, AC005037, AC006947, AL132826, AP000501, AC004263, AL034395, AF207550, AL078477, AC005512, AC006064, AC002476, AC004890, AC004410, AP000337, AC002470, and L78833.
HBMBU49	9414	723094	1 - 520	15 - 534	H83282, and H61030.
HBMBF89	9415	912789	1 - 938	15 - 952	AI524149, AA214070, N32863, AW269871, AL1337580, AI567436, AF1797310, AA913630, AI674495, AL0201224, AI004609, AI685959, AW316868, AI374605, AF173075, AI420705, AI363214, AL0201959, AW025086, N57161, AI718664, AA738168, AI991056, AI079888, AI923956, AW370538, AA557806, W88855, AI984189, AI376436, AI240957, AA780294, AI868941, W46418, AA350784, W88536, H57851, AI202868, T86691, N29741, AI358983,

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				AA683395, W39500, and AA159553.
HBMBI78	9416	623421	1 - 950	AA770612.
HBMBE68	9417	879588	1 - 388	W73386, and A1910369.
HBMBE66	9418	859500	1 - 339	AW080136, AA648683, A1625125, AW193143, A1635976, A1664811, AA935848, A1037910, AA564865, AA627154, AW166653, A1932443, AA501614, AW302709, AA578231, AA491807, AA845804, A1565097, N68677, A1572115, A1030917, AA857381, A1560195, A1041375, A1040054, A533344, AA515046, AA366716, A1047429, A1679271, A1229935, A1024339, AW028908, A1287706, AA757888, A1539530, AA508873, A1061313, AW020094, AA833896, AW117860, AA833875, A1249688, AC006023, Z84469, AC004019, AC005412, A121603, AC006487, AP000509, AC004217, AP000512, Z98950, AP000359, AC008101, AC006077, A1035090, AC006285, AP000313, AP000013, AP000155, AC007285, AC005998, AF069291, AF003626, AP000050, AF067844, AC016025, AC006008, A1022476, AC005215, AF111169, AP000117, A1022316, A1022327, A1049759, A1132987, AC007096, A1132985, AF029308, AC004185, A1033527, AC010175, AC004087, AC000120, AC007536, AC002996, A1049829, AC005067, U63834, A1050321, AC001228, Z97876, AC004738, AC005358, AP000036, A1080243, M29929, A1035703, AC009263, AF111168, AC002110, U95740, AC006552, U89337, AC005225, AF165926, AC020663, AC003982, AF134726, A1022238, AC005243, AP000193, Z84487, A1031427, Z84466, AC004675, AC005914, AC006449, AC007226, AP000511, AC005399, A1031985, AC007934, AC006115, A1050308, AC005839, AF196969, U95742, A1023553, AF109907, AC004914, AC006111, AC002105, A1008725, AC005058, AC005191, AC003950, A1022320, AC003029, AC004686, AC004843, A113163, Z93023, AP000047, AC007216, AC002430, Z83822, AP000432, A1034421, AC007384, AC004834, AC006239, A1034420, AC007664, A1121825, AC006312, A1031846, AF064861, Z86909, AC004875, A1008715, A1049539, AC004678, AC000052, Z85986, A1034423, AC006972, AC005726, AC003037, AC005944, A1008582, AC006146, AC006384, AC004531, AC003690, AF121781, AC005180, AC007649, AP000692, AC006511, Z94793, A1049694, U95743, A1139054, AP000038, A1079305, AC007199, AC007385, AC005089, AP000034, AC002073, AC004491, AC002470, AC008018, AC004893, AC005182, AC002477, A1117694, A1133245, AC005971, AC007324, AC004859, AC007308, A1022318, AC002223, A1034379, A1031282, AC004858, AF047825, AF038458, AC003682, AC008134, A1031597, AC005233, AC002395, AC004458, AP000115, AC004216, AC005632, A1035249, AC002551, AC006501, AC004000, Z82181, AF107885, AC006966, AC005088, A1009179, AP008829, AC006530, Z84480, AC005618, AC008079, AC005832, AC005800, U85195, AC002040, AF190465, AP000502, AC004996,

HBMBB45	9420	578817	1 - 343	15 - 357	AC006318, AL033376, AC005094, AP001052, AC005696, D84394, AC005086, AL022165, AC004841, AC004647, AL049780, AC005207, AC007050, AC007041, AC003664, AE000658, AC004929, AC003663, Z98884, AL024509, AC004967, AC005740, D87675, D28126, U91326, AL023280, AC006084, and AC001231.
HBMAA5	9421	930481	1 - 421	15 - 435	AI242976.
HBMAA5	9421	930481	1 - 421	15 - 435	AF037641, and AA321292.
HBINCO1	9422	915970	1 - 352	15 - 366	AA737327, and AL433448.
HBINB52	9423	726475	1 - 484	15 - 498	R93012, and AA856773.
HBIMW95	9424	797604	1 - 805	15 - 819	AA460141, AA460739, AA487420, AA487676, AL620475, AW014765, AA826244, AL807477, AL859817, AL888070, C01748, and AA487462.
HBIMW03	9425	921996	1 - 951	15 - 965	H19011, AA017590, H86398, AA969667, AA055983, and AL009182.
HBIMU53	9426	727987	1 - 458	15 - 472	H10282.
HBIMS40	9427	710880	1 - 371	15 - 385	N55533.
HBIMR59	9428	738615	1 - 622	15 - 636	H72483, AL125256, and C15483.
HBIML90	9429	787320	1 - 433	15 - 447	AL566099, AW027347, AL921989, AA769157, AA722358, N66761, AL696509, AL825693, AA651815, AL933564, D59982, D61092, AA860600, D59981, D61152, AL873970, AA831741, H02809, AA653665, and AL050064.
HBIML80	9430	775435	1 - 451	15 - 465	W17090, and AW022657.
HBIME11	9431	972939	1 - 457	15 - 471	N80651, and AC002400.
HBIMC69	9432	754875	1 - 290	15 - 304	H37828, and AA707167.
HBIMA80	9433	777456	1 - 425	15 - 439	T56980, AF178030, and AF147313.
HBILX09	9434	625319	1 - 428	15 - 442	AA290916, R00373, AW387125, AA449392, AW387122, and AL080141.
HBILW74	9435	765352	1 - 398	15 - 412	H38564, AC005049, AC005245, AC006014, AC005488, AC006195, AC003043, AF001549, and AC005071.
HBILU36	9436	847851	1 - 426	15 - 440	AA084033, AA126948, AA126949, AA070285, U67770, X02414, X63389, and AA070164.
HBILR37	9437	849633	1 - 416	15 - 430	CI4331, CI4429, D59275, CI4389, AA305578, D80227, D59859, D80164, D80378, D80195, D59467, D59502, D80038, D80269, D51423, D83283, D80022, D51799, D80166, D80253, D59619, C15076, D80210, D80391, D80240, D80043, D59787, D81030, D81026, D80024, D80212, D50979, D80193, D80196, D80188, AA305409, D80219, AA514188, D57483, D59927, D80366, D51022, D59610, D59889, D50995, D80045, D80248, AW177440, AA514186, D80241, AW360811, AW178893, D80522, D80251, D51060, C14014, D80133, T03269, AW375405, AW179328, C75259, AW179020, AA809122, C14407, AW179023, AW366296, AW378532, AW377671, AW360844, D80268, AW375406, AW378534, AW179332, AW377672, AW178905, AW177501, AW177511, C03695, D80302, AW179019, AW178762, AL557751, D51250, AW352171, D80439, AW377676, AW178906, AW352170, AW177731, D80132,

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HBJLF04	9439	614915	1 - 323	15 - 337	AA192415, AW511132, AW537503, A827164, A1027431, A23509506, and AW70643.
HBJLE70	9440	847853	1 - 993	15 - 1007	AT1702923, A1628097, A1149416, A1342468, A1038395, A16360839, A2335040, A010019, AW104170, A1266742, R00513, A954623, R80407, H81294, AA235207, AA92698, T98403, AA480593, A1352046, AA807246, AA010161, T98402, AW078986, AW572359, R64407, A547277, and AC004148.
HBJKI77	9441	772000	1 - 683	15 - 697	AT763332, AT744915, W021774, W32586, and A1109627.
HBJKC007	9442	952843	1 - 806	15 - 820	AT7395338, AC006140, AB023052, and AP000513.
HBJKF02	9443	919446	1 - 385	15 - 399	AA278175.
HBJKD77	9444	771975	1 - 393	15 - 407	
HBJKD64	9445	746398	1 - 341	15 - 355	AW162288, A1696793, F13749, A1431434, A1537538, A1358089, AW021116, AW157005, AA657835, AA508089, A2328331, A13130647, A1954525, AA992126, A1051037, A1028510, AT751162, AW271917, A1340641, AA728937, A1500552, A1821881, A1821918, AA856262, A6629412, AA829065, AA804925, A1566608, H90844, N67343, AW089589, N23260, H71678, D29500, AL046746, H79308, A1038936, F30251, A1887716, A1887716, A190265, A151656, AC009384, A1961536, AW174011, A14644320, A1598060, AA669840, A1144036.

HB/KD60	9446	740171	1 - 888	15 - 902	AW302950, AL570943, AA363770, AA371513, AC005412, AL117536, AC009946, Z93930, AL132425, AC004692, AL022313, AC005332, AC006236, AC005280, AL031255, AC005726, AC005899, AC004832, AC020663, AL021939, AL035413, AC000052, AC005539, AC004922, AC007344, AC004019, Z82244, AP000270, AC004854, AC005484, AC005996, AP000032, AC006080, AC005874, AF134711, AC005081, AL021453, AP000215, AP000116, AC007057, AL049872, AC006356, AL049757, AC005231, AC007055, M87889, AL035587, AC004167, AC005696, AC005531, US3930, AP000557, AP000558, AC009516, AC006468, AL022238, AC004996, AC005399, AF038458, AL031296, AC006600, AC003667, AC007283, AC005015, U91321, AC004072, AC004534, AC007899, AL021154, AL035667, AL031003, AC007308, D87675, AP000513, AC005800, AC002483, AC004794, AC006064, Z68321, AC005013, L35485, AP000871, AC005962, AC004921, AL121653, AL049785, AC002115, AC000070, AP000503, AC005037, AC007226, AL033376, AL035448, AC002375, AC004087, AC005940, AC004231, AC005046, AL109827, AC002470, Z85987, AC004536, AF134726, AC004963, AC005900, AC005520, AC005620, AC007376, AC005498, AC005089, AC006441, AC002350, AL080285, AC007237, AL031407, Z99716, AC009509, AL034423, AP000049, AL031393, AC004887, AL050318, Z83844, U85196, AC004452, AC005616, AL050341, AP000311, AL008719, AF011889, AF111169, AF196779, Z72521, AC006530, AL034553, AC006512, AC005193, AC005057, AC004150, AL031733, AC005062, AC006277, Z95114, AC005529, AC007731, AC005602, AC006057, AF050154, Z84476, AP000689, AC003682, AC002059, AL008735, AP000090, AC004477, AC006111, AC002530, AP000356, AL133485, AC003663, AE000661, AC007228, AC004890, AL109984, AL020997, AC004253, AC004859, AL022165, AL022163, AC018633, AF195658, AC005192, AC006071, AC004876, AF031078, AL049830, AC005914, AC004263, AL034355, AF030876, AC004687, AC005004, AB003151, AC005229, AC005664, AC005500, AL021395, AC000025, AL034402, AC003690, AC005876, AL022397, AC000097, AC005780, AF109907, AC005527, AC006547, AC000041, AC002091, Z46773, AJ003147, AC005209, AC002425, AL035089, AL031589, AC004895, AL035681, AL031053, Z82173, AC004408, AC006270, AC005212, AF111167, AC006132, AC003955, AL110292, AL031346, AC006283, AC006001, AL080243, AC005180, and AC005184, R77172.
HB/KD50	9447	724159	1 - 357	15 - 371	AL303007, AA630672, AA634147, N22465, AF249447, AA679532, AA478048, AI821670, AI357823, AA613249, AW274349, AE524360, AE254913, AI696062, N22023, AI590906, AW264934, AA012982, AA688359, AF191913, AW270258, AT92133, AW303196, AA169245, AA380808, AE821714, AA528554, AA631517, AL119552, AA188664, AW301350, AA631507, AA483771, AW304580, AA480574, AA112924, AL048135, H73863, AI580250, AW270270, AC006455, AL121754, AP000350, AC002425, AC004778, Z83844, AP000155, AF111168, AC002540, AF190465, AL109798, AC007312, AL121655, AC004859, AC006077, AC002369, AC004876, AC002126, AP000151, AP000009, AC007686, AP000501, AC002472, AP000690,

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HBJKD49	9448	847857	1 - 413	15 - 427	
HBJKD40	9449	710931	1 - 351	15 - 365	
HBJKA77	9450	771982	1 - 552	15 - 566	AA256446, AL806202, AA746104, and AA811237.
HBJKA01	9451	916077	1 - 528	15 - 542	AI445151.
HBJIX53	9452	835733	1 - 379	15 - 393	AA477047, AW383764, AA321993, AA309810, W25768, AA465618, R24995, W07130, R50327, AA368102, N58603, AC035648, AW015964, W69552, AL1791923, AA525463, AA526678, A1792408, AC005071, AF161081, and AF161080.
HBJJI12	9453	894345	1 - 604	15 - 618	AA113985, AA010096, AA333937, and U26150.
HBJUN02	9454	919371	1 - 555	15 - 569	Z78294, AA808842, AA715173, AA715075, AC005102, AC006449, AC005697, AL031311, AC007277, AC004686, AC009247, AC006211, AL096701, AL080242, AC004125, AC005914, AF207550, AC004659, AC005746, AC004491, AC006947, AL023879, AC006487, AL020997, AC005940, AC004827, AC006115, AC016025, AC005189, AF196972, AF109907, and AC007057.
HBJJI10	9455	937583	1 - 201	15 - 215	AA285172.

HBIIJ44	9456	716409	1 - 564	15 - 578	AI142126, R54554, H24334, AI142097, and AW374108.
HBIIJ32	9457	699059	1 - 695	15 - 709	AI020773, H30102, H39985, H21775, AI668592, AI821454, R49787, H28487, and AC007200.
HBIIJA01	9458	916078	1 - 1042	15 - 1056	AI088489, AI194063, AI123551, AA759303, AW028108, AI093432, AA836264, AA767044, AI274044, AI434773, AW135037, AI808043, AA806714, AW087576, AA883729, AA809688, AA847203, AI524547, AA865016, and AC004982.
HBIIJL42	9459	597100	1 - 399	15 - 413	R35568.
HBIIJL36	9460	861363	1 - 776	15 - 790	AI091292, AI005391, AA806165, AI002979, AI702990, AA158357, NS4188, AA069178, AA091807, AA095036, and AC006146.
HBIIJH60	9461	930448	1 - 517	15 - 531	AA729724, and AC006116.
HBIIJF51	9462	725081	1 - 449	15 - 463	H69862.
HBIIJF31	9463	697753	1 - 673	15 - 687	T79551, T86369, R08540, and T98454.
HBIIJB69	9464	754891	1 - 531	15 - 545	H69017, and H69797.
HBIIJA80	9465	784267	1 - 625	15 - 639	AA147107, AA425502, R79257, H03146, W58353, C19029, AA657402, AI050680, AA757308, AI963898, AA953652, AA369798, AI933329, U48339, T85056, and AA443785.
HBIIHX73	9466	971377	1 - 1045	15 - 1059	AI148152, D51250, D80253, D80043, AW242597, D59787, D80219, D59275, D80227, D80240, D80210, D51423, D80134, D59619, D80193, D80391, AI039085, D80196, C14227, D80949, T23947, D59927, AI039538, AI039564, AI039156, AI043441, AI039150, AI038821, AI043445, AI039509, D80366, AI039108, T24119, AI039678, AI039074, AI038837, AI039625, AI039648, AI039629, D80168, T24112, AI037726, AI038531, AI039566, AI039109, AI040992, AI039924, AI039128, AI044407, AI039659, AI036973, AI039386, AI045337, AI037051, AI045553, AI036725, AI039423, AI045794, AI045341, AI039410, AI042909, AI635983, H00069, AI038025, AI044530, AI043422, T11051, D81026, AI043423, D80045, D50995, C14014, C75259, R47228, AI036418, AI535783, AW013814, AW457756, D59889, AW451070, C15076, AI037526, AI037639, D80022, D80195, AI036196, D80038, AI037615, AI038851, AI037082, T23659, D81030, D58283, T11417, T02921, D80188, D51799, D80378, D59467, AI036924, F13647, AI036117, AI557751, AI036767, T03269, AI036679, AI037601, AI036238, D80522, D80212, D50979, AI036190, AI036733, C14298, T48598, AI036964, Z21582, D59502, AA285331, C14429, D80164, AA514190, D59695, AI036158, D80166, AI037027, D59859, D80269, D80268, AI037054, AI037178, D52291, Z25782, D58253, AI036191, D80024, AI036765, AI036227, D57483, Z99396, D59610, C14389, D59627, D80241, D81111, AI036998, AI910186, AI037177, C14331, AI036207, D51060, H00072, AA305409, D807021, AI718893, AI036174, D51079, AI037047, AW450376, AW177440, AI036139, D51022, AW79328, AI036167, D80014, AW178775, AA305578, AW378532, AI036132, D51213, AW352158, AW377671, AI905856, AW369651, D80251, D80064, D51097, AA514188, D80248, AW178762, AI037077, AW177501, AI037002, C14307, AW352117, C05695, C14407, AW176467, AA514186, D80133, AW360811, T02974, D80302, AW352117, C05695, C14407, AW176467, AW375405, AW378540, Z25783, AW366296, D80132, AW360844, AW360817, AW375406.

HB/HW74	9467	765380	1 - 435	15 - 449	AW378534, AW179332, AW377672, AW179023, AW178905, D80247, AW179220, AL037679, D80258, D80439, AW377676, AW352171, AW178906, AW352170, AW177731, D59373, AW378539, AW178907, AW179019, AW179024, AL036858, C14077, AW177505, D80158, AW360841, AW179020, C06015, AW178909, AW177456, T03116, AW179339, AW178908, AW178980, AW135155, AW177733, AW378528, A25909, A67220, AR020969, X73004, A85477, A86792, D34614, U87230, A44171, A012117, I18371, AR062871, X68127, A85396, AR017907, AR062872, AR062873, AR067731, AR067732, A58522, A91750, A84772, A84776, A84773, A84775, A84774, A20702, A20700, A43189, A43188, AR066482, Y17188, AR008430, I8636, A02712, A95051, A95117, AR031374, A49700, AR031375, A58521, AR020969, X73004, A38214, I56772, I95540, AR0018924, A63087, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, AR015960, AR000007, AR015961, AR036905, AJ244003, AJ244004, AJ244005, I19516, A18063, I06859, A23334, A75888, I70384, A60111, A23633, A23998, A95052, A18050, AR007512, A98767, A93963, A93964, I63120, AR043602, AR043603, AR043601, I66494, I60241, I60242, A97211, Z96142, I00074, A58524, A58523, I92483, AR038286, I66495, AR054109, I66498, I66497, I66496, I66486, I66487, A64081, A24783, A24782, I03665, I03343, A81878, I03664, A15078, E00523, V00745, AF156296, AR036903, D28584, AR022240, A11245, A02710, E12615, AR035193, A92133, E14304, A07700, A13392, A13393, I19517, A27396, A76773, I3740, A22413, AR027100, I28266, I21869, I13349, A49045, E16678, A82653, E16636, A93016, AF118808, A70040, A35536, A35537, A02135, A02136, A04663, A04664, I01992, I25027, I26929, I44515, I26928, I26930, I26927, A58525, I08051, I25041, AF156294, Y11923, E16590, AJ230933, I19525, Y11926, D88984, AR038762, I49890, I44516, AR000006, I00077, A92636, D14548, A58526, A91753, I00079, A51384, E03165, E02221, E01614, E13364, S70644, D26022, AF019720, A91754, AR035975, AR035974, AR035977, AR035976, AR035978, X58217, A18722, I84554, I84553, A60957, M32676, S78798, AF096810, A60968, AF096793, A60985, A60990, A60987, A62300, AF156299, A62298, D44443, AB007195, X15418, A97221, A80951, A10363, X67155, I07429, X73003, I08250, E04616, AF130655, S65373, A84916, A10361, A132110, AF156303, S69292, AF156302, AF156304, A78862, D89785, A91965, I07888, I69350, A04710, A20701, Y11920, AR027069, A52326, X13220, AR018138, AR06477, I03663, S83538, Y11449, A02711, X92518, AR063812, A04447, and A04448.
HB/HW74	9467	765380	1 - 435	15 - 449	AA716676, H63334, H60316, A1744524, A4836358, Z95116, AC005529, U91321, AC004832, A1034429, A1049874, AC005796, AC005527, A1049539, A109758, and A132777.
HB/HJ20	9468	907575	1 - 544	15 - 558	AL179630, and AA176615.
HB/HJ44	9469	882040	1 - 409	15 - 423	
HB/HJ96	9470	828996	1 - 424	15 - 438	AA461038, AW151827, A1753072, A1042290, A1377120, A1364168, W68727, N03039, A1754813, A1203980, A021913, A1754315, A1616458, A016713, A1281214, A1454783, AW080473, AW338260, AW291880, AW337350, A1913188, A1243887, AA291380, H73392, AA702481, R96772.

					AI095038, AI439501, AW026886, AI831262, AI961995, T54990, AA578659, AW058379, AI921073, H58220, AA055896, T56868, AW073087, AA403311, R94193, AA410982, AI566006, T54669, AI814941, AA680075, AA852300, AI131298, AI686560, AA600068, AI380408, AI694164, AA338172, AA833557, AA304609, AA332521, R94291, AA131543, AIW198197, W68749, NS6676, AA377810, H58556, AA051184, W58726, AA570322, AA347235, R75738, AA419374, W51098, W52829, AI280595, AA366339, AI537499, AA347234, and AA253337.
HBJG02	9471	919450	1 - 643	15 - 657	AA126455, and AA805265.
HBJG103	9472	923800	1 - 497	15 - 511	AW014944, AI571386, AI494432, AW149677, and AC007682.
HBJFR45	9473	922105	1 - 519	15 - 533	AW205972, and R06326.
HBJFP08	9474	959190	1 - 326	15 - 340	
HBJFP22	9475	728580	1 - 471	15 - 485	R33062, and R26486.
HBJFP08	9476	959868	1 - 474	15 - 488	AA463369.
HBJFK85	9477	783432	1 - 292	15 - 306	AL036438, and R43453.
HBJFI48	9478	847899	1 - 489	15 - 503	AC005180.
HBJFI30	9479	691056	1 - 440	15 - 454	H83540, H83349, T98751, and T89066.
HBJFH60	9480	740543	1 - 552	15 - 566	AI631029, N51923, H64804, A W016151, N51665, N53749, AA503053, AA917715, R81860, and N50398.
HBJFH06	9481	935587	1 - 675	15 - 689	AA189094.
HBJFD41	9482	711591	1 - 638	15 - 652	AA120846, N94144, and AA120845.
HBJFD21	9483	671205	1 - 869	15 - 883	W89209, AA236823, T90638, AA255863, AW137746, AA814395, AA814416, AA825532, T83165, and T82244.
HBJFC23	9484	423885	1 - 616	15 - 630	AW276648, R21362, H10771, AW376712, AI907952, AW407979, AW366716, H08663, and AB028960.
HBJFB10	9485	968162	1 - 421	15 - 435	AI040621, H71636, T80789, and AI035086.
HBJFY89	9486	787044	1 - 309	15 - 323	W59951.
HBJES09	9487	487020	1 - 547	15 - 561	
HBJEP70	9488	757374	1 - 476	15 - 490	R64066, and R64081.
HBJEN68	9489	752251	1 - 594	15 - 608	H48332, H53781, and H48241.
HBJEN45	9490	722107	1 - 306	15 - 320	N35747.
HBJEL04	9491	615515	1 - 480	15 - 494	H00849, H78133, and A1023482.
HBJEL06	9492	935967	1 - 385	15 - 399	H37882.
HBJEE72	9493	760187	1 - 516	15 - 530	AI739168, AI243692, R61551, AI423731, R53934, AA426249, T06305, AI423751, AA805323, and AA736849.
HBJED51	9494	485130	1 - 485	15 - 499	
HBJED05	9495	935058	1 - 459	15 - 473	T19837, Z42292, W56491, Z43884, R10274, H61521, AA047587, AI557059, AA001460, R21700, R56331, H58106, W68068, AI879218, AI902942, AW391832, H71164, F06897, and Z28851.

HBIEC67	9496	573809	1 - 424	15 - 438	
HBIEA73	9497	573834	1 - 105	15 - 119	
HBIEA54	9498	625943	1 - 507	15 - 521	
HBIEA38	9499	577103	1 - 598	15 - 612	W85789, AA693974, A1032087, and W85723.
HBIEA37	9500	839964	1 - 96	15 - 110	
HBIEA13	9501	419107	1 - 255	15 - 269	
HBIDZ49	9502	847928	1 - 383	15 - 397	A1018729, A1017735, T94096, AA788760, AC004878, AC006014, AC005488, AC005071, AC006480, AF030453, and AC005088.
					R96956.
HBIDR24	9503	677407	1 - 415	15 - 429	N92223.
HBIDQ86	9504	784654	1 - 422	15 - 436	H02200.
HBIDM70	9505	757435	1 - 386	15 - 400	
HBIDL24	9506	678272	1 - 624	15 - 638	R92634, R92648, and N59587.
HBICV85	9507	900955	1 - 807	15 - 821	D58283, D80195, D80227, D80391, D80166, D59859, D80043, D59502, D51423, D59619, D80210, D51799, D80240, D80253, D80196, D80269, D80038, D80188, D80212, D59275, D80193, D57483, D59927, D80219, D81030, D80022, D50979, D59889, D59610, D80366, D80378, D80045, D59787, C14429, D50995, D80164, D81026, D80241, D80024, T03269, C15076, C14389, C75259, C14014, C14331, D59467, D51060, AW178893, AA305409, D80134, F13647, D51250, D80268, D58253, D80949, AA305578, D80168, C14227, D51079, D81111, D51022, AW177440, AW179328, D80522, D52291, AW178775, AW378532, D59605, AW352158, AW377671, Z21582, A910186, AW369651, A905856, D80251, AA514188, D80248, AW178762, AA514186, D51097, AA285331, C05695, C14298, AW177501, AW177511, D80064, D80133, AW360811, C14407, AW352117, AW176467, AW378540, AW375405, AW360834, D80132, AW366296, AW360844, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, AW179220, D80302, A1557751, AW352171, D80439, AW377676, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, D59373, D80247, D80014, AW177505, AW179020, AW360841, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, T11417, D51103, T03116, AW179004, AW179012, AW178914, AW378525, D80157, AW367967, AW177722, AW177728, T02974, D51759, AW179009, AW178774, AW178911, AW378543, AW352163, D58246, C06015, D59503, D80258, AW178983, AW352120, AW178781, T48593, D51213, AW378539, D59627, A1557774, D58101, A1535850, AA809122, AW177723, D59653, AW177508, D452902, C14975, A1525923, AW378533, AW367950, H67866, D59317, H67854, C03092, D45273, AW177497, A1535686, AW178986, N66429, AW177734, A1525917, C14973, C14344, D59474, A1525227, D51221, D59551, D60010, AA033512, A1525920, AA514184, D60214, C14957, C14046, C16955, T03048, A1525242, A1525235, A1525925, A1535961, AW378542, A1525215, C05763, Z33452, A1525237, A1525222, D31458, A1732110, A62300, A84916, A62298, X67155, A67220, D89785, A78862, D26022, A25909, Y17188,

HBICQ65	9508	876430	1 - 1780	15 - 1794	AR018138, D34614, D88547, AR025207, X82626, AB028859, AF058696, AR008278, I82448, X68127, AB012117, Y12724, A83396, AR066482, A44171, A85477, I19525, A86792, U87250, X93549, AR060385, A94995, AB002449, AR016808, AR008443, I50126, I50132, I50128, I50133, AF135125, AR066488, AR016514, AR060138, A45456, A26615, AR052274, Y09669, A43192, A43190, AR038669, AR066490, AR066487, I14842, A30438, I18367, D88507, AR054175, D50010, Y17187, AR064240, AB033111, A63261, AR008277, AR008281, AR008408, AR062872, A07867, AR016691, AR016690, U46128, I79511, D13509, A64136, A68321, AR060133, U87247, Z3749, AB025656, U79457, AF123263, Z82022, AR032065, AR060382, X93535, and AR008382.
HBICJ82	9509	779645	1 - 467	15 - 481	AR281112, AF102456, AF069527, AW270041, AW005454, AF742020, AI813489, AW055057, AW438593, AA702328, AI379307, AA262137, AA643040, AA694381, AA281632, AW243902, AI422791, AA493261, AW117912, AI034474, AW236597, AW440103, AI292303, AA281692, D19612, AA768827, N99706, AI081788, AI868989, AA514538, AA877024, N71978, R24110, AW449526, R17044, AW082476, AA369546, R24059, AI290151, R26499, AI883270, AA6212940, AW082653, R50985, C16425, R26471, AI701667, D62032, AA262413, AA333518, AW082649, AA72211, AI539327, AA369545, AW021723, R17005, AA468881, AA522467, AI371310, N93082, and W24736.
HBICE07	9510	954090	1 - 180	15 - 194	R02678.
HBICB83	9511	781411	1 - 617	15 - 631	T88832.
HBIBR04	9512	847952	1 - 432	15 - 446	AW206286, AW291675, AW025778, T99524, AW026757, and AC005682.
HBIAJ95	9513	796659	1 - 263	15 - 277	N89814, AA209448, AW239298, AP000541, and AI239321.
HBIAO55	9514	732436	1 - 414	15 - 428	T81741, AA781892, W85729, and AL132777.
HBIAJ49	9515	723164	1 - 427	15 - 441	N71474.
HBIAI50	9516	724619	1 - 490	15 - 504	AI089358, AA056686, AI089564, AI086521, AI669927, AI817821, AA056582, AA847148, AI827763, and AB002370.
HBIAH27	9517	682941	1 - 239	15 - 253	
HBIAE32	9518	699695	1 - 395	15 - 409	W88646, AI368895, and Z39215.
HBIAJ77	9519	772422	1 - 491	15 - 505	H53026.
HBIAJ49	9520	722195	1 - 874	15 - 888	AI479236, AI935423, AA255972, and AA243356.
HBIAJ28	9521	847966	1 - 486	15 - 500	Z28561.
HBIAJ15	9522	660552	1 - 395	15 - 409	AA429379.
HBDAE47	9523	720008	1 - 572	15 - 586	AA252703, AI760942, and AA565583.
HBDAJ64	9524	864344	1 - 534	15 - 548	H04563, R80434, AA531428, Z82215, and Z95114.
HBDAJ16	9525	661560	1 - 375	15 - 389	AI810593, and T89570.
HBCCO10	9526	963157	1 - 564	15 - 578	AA701314, and AA004793.

HBCCJ05	9527	930956	1 - 568	15 - 582	H59931, H67432, Z70280, AC003100, AC006998, AC003072, AC005154, AL022154, and AC003034.
HBCCB11	9528	965869	1 - 579	15 - 593	AL672457, AA810483, AL269914, AL949892, AL198001, W86511, AW237699, AL863804, and AS25426.
HBCCD06	9529	938319	1 - 590	15 - 604	AL078128, AA71101, AL274339, AA035467, AA419038, AL677732, AW190726, AL198435, AL832200, AL983969, AA411122, AL093316, AL361637, AL769275, AS60217, AA961077, AL291805, AL291474, AA915909, AA035466, AA046943, AL857306, AL661657, AA427407, AA423194, AA423792, ALV070742, AW051192, AL275083, AW293787, AW452102, AA250784, AA031475, N92812, H91759, AW149476, H91665, and AA514348.
HBCCB51	9530	975256	1 - 515	15 - 529	AA280776, AL137689, AF111173, and AF100172.
HBCCB08	9531	958151	1 - 567	15 - 581	AA464030, AA434281, AA410674, D78694, AL860751, AL628190, AA568168, AL097605, AL199027, D78920, AL227411, AL200649, AL199599, AL935345, AS525327, AL475176, AL910441, AL923458, AL247190, AL687257, AL923451, AL541551, AL699991, AL653151, and AW438934.
HBCCB51	9532	952057	1 - 995	15 - 1009	AA280776, AL137689, AF111173, and AF100172.
HBCCB06	9533	934110	1 - 525	15 - 539	H40594.
HBCCB04	9534	926761	1 - 588	15 - 602	AA677024, and AL022041.
HBCCB12	9535	969578	1 - 517	15 - 531	AL566483, AA417101, and AL021368.
HBCCB57	9536	848322	1 - 758	15 - 772	AA486018, AA005417, H56995, AL031666, and AF144233.
HBCCB22	9537	848325	1 - 895	15 - 909	AA419501, AA969163, AA157911, AA410996, AW452982, AW339854, and H14554.
HBCCAW32	9538	573919	1 - 349	15 - 363	AA826669, AA287363, AL809776, AA470582, AA516190, AA005108, AA838091, AL680323, AA947361, Z97054, AL049694, AC005484, AC004253, AC005288, AC004019, AL049757, AC004584, AC006441, AC009247, AC007395, AC004216, AC004895, AL022316, U91318, U95742, AL049766, AL009181, AL023353, AC016830, AC002350, AC007216, AC000052, Z85986, AC007676, AC005562, AC016027, AC005822, AL031848, AL050318, AL031662, AC006088, AC003950, AC005086, AC004099, AB001523, AP000694, AC004841, AC010205, AC004765, AC005280, AC004813, AL109984, AC005409, AC003101, AC004678, AC004812, AP000514, AL034429, AC004874, AL031602, AC006487, AL009610, AC004596, AL136295, AC002314, AC007227, AL117694, AP001060, AC004125, AL031587, AL133246, AC005057, AF001548, AP000512, AC005004, AC005088, Z83844, AL031311, U91323, AC007686, AF001549, AL022165, AF030453, Z98941, Z84469, AC004383, AC005914, Z93016, AC005516, AL049569, AC006059, Z93017, Z83847, AC005837, AC004913, AF217403, AC005015, AC004662, AC005081, AC007193, AC008039, AC003982, AC005058, AC006130, M89651, AC008372, AF043945, AC005696, AL096701, AL024474, AC002312, AL031276, AC004531, AL009183, AL049776, AL049780, AC005821, AC003046, AF134726, AL096712, AL031985, AL049758, AL035249, AL023807, AP000501, Z93241, AL133382, AC005940, AC010077, AC008101, AL035086, AC006430, AC002425, Z86090, AC005082, AC007899, AC005049,

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HBCAT10	9539	968195	1 - 323	15 - 337	AL135198, and AL021528.
HBCAS32	9540	699489	1 - 264	15 - 278	R39875.
HBCAQ85	9541	783431	1 - 362	15 - 376	R60453, H10942, and Z42911.
HBCAQ42	9542	864356	1 - 418	15 - 432	AA594734, AA376358, N69399, AI623364, AA368329, AI733856, AI246386, AA077619, AA133013, AI246061, AA878492, AI689198, AA299422, AI268019, T33133, AI273990, AA484022, AA211918, H73550, AW161459, AA434078, W26972, AA831638, AA614647, AW161879, W78026, AI191343, AI811846, AI003797, AA814878, AA936548, AW268329, AA714524, AA804334, H67064, AW069227, F33126, AA504951, T08386, AI905588, AI491765, H24953, AI634187, AA584207, AI457313, AL280574, AA356376, AI243793, AA303027, AA344645, AW007980, AA706202, AA226357, AW378516, AA325115, AI744933, C14966, AA226356, AI049630, F32591, AA568399, AA058312, AI052776, AA809089, AI904840, AA598605, H65213, AA568400, AA568416, AW378511, AW270429, AA565319, AA425924, AI926717, AW270351, AI821420, AI697425, T47138, AA862312, AI042735, AA573693, AI805261, AI054090, AA514450, AI469392, AE68862, AA357878, AA525531, AI718462, AI568147, C15504, AI332615, AA363003, AA523695, A W068786, AA714512, H44944, AS26216, AI683116, AW243793, AL033392, AC004491, AC005231, AI022326, U62293, U63721, AC005057, AP000516, AC002375, AL031280, U02051, AC005944, AC004801, AC007666, AL031602, AI022311, AP000696, AI022324, AP000690, AC005585, AC004662, AI251973, AI078638, AC007308, AL031595, AC002470, AC003030, AC005280, AC002492, AI049646, AC006050, Z93244, AI031665, AL020993, AI049563, AL031291, AP000501, AI109627, AC005105, AC005786, AF165926, AC006600, AF031078, AC005412, AL133243, AL031289, AC007376, AC005317, AF030876, AC004703, AC004382, AL035455, AP000689, AC005829, AL031007, X58139, AC009510, AC007686, U7924, AC006011, AC005011, AL022320, AC004973, AC004865, Z94802, AC005670, AI135959, AC007707, AC007685, AC002538, AB013139, AL031431, AB020690, AC006120, AC007358, AB000931, AC005393, AC005908, AC000025, AC004651, AC005316, AC004760, AC003071, AC005031, AL031577, AC000052, AC004817, AC005837, AI022721, AC007880, AC002115, U63834, Z82250, AF043460, AC007390, AL078602, AC007263, U78027, AC004230, M84472, AL079342, AL035682, AC005214, AI022334, AC004796, AC007444, AF031976, AC000125, U91326,

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HASCG58	9543	738423	1 - 489	15 - 503	T83649, AW450374, AL079410, T92067, AA031273, F24833, AL129738, AA031274, R10134, R24168, and AA025541.
HASAW90	9544	789112	1 - 822	15 - 836	N42137, AA416659, AL587031, R18649, AA416660, D78802, AW182288, and N33742.
HASAR74	9545	879377	1 - 1185	15 - 1199	AW302315, AA644090, AL962030, AA601356, AL040051, AL545771, AA483606, AL040054, AA568204, AA570740, AA584489, AW188742, AA581263, AA714011, AA749235, AL061313, AA687730, AA503298, AA838190, AL251576, AW021917, AA862243, AA640305, AA626040, AL499954, AA347114, AL135357, AA584482, AL207424, AL583466, AA121777, AA182731, D87008, D88268, AC007382, AL031177, AL068719, AL079304, AC005274, AC004615, Z96074, AC008082, AC005406, AL023283, U95743, AL117329, AC005071, AL035405, AC004866, AC002449, AL136297, AC004097, AC005010, AC005744, Z98304, AL049839, AC005829, AC000403, AC004672, AC005231, AL020997, AC000038, M89651, AC006454, AC005280, Z85996, AL035697, AC012627, U85195, AC006581, AE000658, AC004883, Z97054, AC006487, AL049636, AL023553, AC005184, AC004020, AL034421, AL031584, AC009516, AC010206, AL022323, U95741, AC002984, AL121694, AC007981, AP000208, AP000557, AC005013, AC002542, Z82201, AC005821, AC005899, AL117352, AL031466, AC005512, AC005261, AC004804, AP000247, Z95114, AL031767, AP000130, AC006101, AC006459, AC003071, U96629, AL049631, Z83822, AC006162, AC005786, AC004913, AP000039, AC005562, AC004706, AC005049, AC010582, AL031289, AL021397, AC006001, AC006285, AC005411, AC005778, AC005874, AF134471, AP000501, AC004814, AL080241, AC004837, AC007546, AL109628, Z84480, AC007052, AC006445, AL109798, AP000212, AP000134, Z98946.

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HASAC10	9546	968746	1 - 470	15 - 484	AL863136, N71484, AA318470, AA972121, AW129333, and AC007677.

TABLE 4

Code	Description	Tissue	Organ	Cell Line	Disease	Vector
AR022	a_Heart	a_Heart				
AR023	a_Liver	a_Liver				
AR024	a_mammary gland	a_mammary gland				
AR025	a_Prostate	a_Prostate				
AR026	a_small intestine	a_small intestine				
AR027	a_Stomach	a_Stomach				
AR028	Blood B cells	Blood B cells				
AR029	Blood B cells activated	Blood B cells activated				
AR030	Blood B cells resting	Blood B cells resting				
AR031	Blood T cells activated	Blood T cells activated				
AR032	Blood T cells resting	Blood T cells resting				
AR033	brain	brain				
AR034	breast	breast				
AR035	breast cancer	breast cancer				
AR036	Cell Line CAOV3	Cell Line CAOV3				
AR037	cell line PA-1	cell line PA-1				
AR038	cell line transformed	cell line transformed				
AR039	colon	colon				
AR040	colon (9808co65R)	colon (9808co65R)				
AR041	colon (9809co15)	colon (9809co15)				
AR042	colon cancer	colon cancer				
AR043	colon cancer (9808co64R)	colon cancer (9808co64R)				
AR044	colon cancer 9809co14	colon cancer 9809co14				
AR045	corn clone 5	corn clone 5				
AR046	corn clone 6	corn clone 6				
AR047	corn clone2	corn clone2				
AR048	corn clone3	corn clone3				
AR049	Corn Clone4	Corn Clone4				
AR050	Donor II B Cells 24hrs	Donor II B Cells 24hrs				
AR051	Donor II B Cells 72hrs	Donor II B Cells 72hrs				
AR052	Donor II B-Cells 24 hrs.	Donor II B-Cells 24 hrs.				
AR053	Donor II B-Cells 72hrs	Donor II B-Cells 72hrs				
AR054	Donor II Resting B Cells	Donor II Resting B Cells				
AR055	Heart	Heart				
AR056	Human Lung (clonotech)	Human Lung (clonotech)				
AR057	Human Mammary (clonotech)	Human Mammary (clonotech)				
AR058	Human Thymus (clonotech)	Human Thymus (clonotech)				
AR059	Jurkat (unstimulated)	Jurkat (unstimulated)				
AR060	Kidney	Kidney				
AR061	Liver	Liver				
AR062	Liver (Clonotech)	Liver (Clonotech)				
AR063	Lymphocytes chronic lymphocytic leukaemia	Lymphocytes chronic lymphocytic leukaemia				

AR064	Lymphocytes diffuse large B cell lymphoma	Lymphocytes diffuse large B cell lymphoma				
AR065	Lymphocytes follicular lymphoma	Lymphocytes follicular lymphoma				
AR066	normal breast	normal breast				
AR067	Normal Ovarian (4004901)	Normal Ovarian (4004901)				
AR068	Normal Ovary 9508G045	Normal Ovary 9508G045				
AR069	Normal Ovary 9701G208	Normal Ovary 9701G208				
AR070	Normal Ovary 9806G005	Normal Ovary 9806G005				
AR071	Ovarian Cancer	Ovarian Cancer				
AR072	Ovarian Cancer (9702G001)	Ovarian Cancer (9702G001)				
AR073	Ovarian Cancer (9707G029)	Ovarian Cancer (9707G029)				
AR074	Ovarian Cancer (9804G011)	Ovarian Cancer (9804G011)				
AR075	Ovarian Cancer (9806G019)	Ovarian Cancer (9806G019)				
AR076	Ovarian Cancer (9807G017)	Ovarian Cancer (9807G017)				
AR077	Ovarian Cancer (9809G001)	Ovarian Cancer (9809G001)				
AR078	ovarian cancer 15799	ovarian cancer 15799				
AR079	Ovarian Cancer 17717AID	Ovarian Cancer 17717AID				
AR080	Ovarian Cancer 4004664B1	Ovarian Cancer 4004664B1				
AR081	Ovarian Cancer 4005315A1	Ovarian Cancer 4005315A1				
AR082	ovarian cancer 94127303	ovarian cancer 94127303				
AR083	Ovarian Cancer 96069304	Ovarian Cancer 96069304				
AR084	Ovarian Cancer 9707G029	Ovarian Cancer 9707G029				
AR085	Ovarian Cancer 9807G045	Ovarian Cancer 9807G045				
AR086	ovarian cancer 9809G001	ovarian cancer 9809G001				
AR087	Ovarian Cancer 9905C032RC	Ovarian Cancer 9905C032RC				
AR088	Ovarian cancer 9907 C00 3rd	Ovarian cancer 9907 C00 3rd				
AR089	Prostate	Prostate				
AR090	Prostate (clonotech)	Prostate (clonotech)				
AR091	prostate cancer	prostate cancer				
AR092	prostate cancer #15176	prostate cancer #15176				
AR093	prostate cancer #15509	prostate cancer #15509				
AR094	prostate cancer #15673	prostate cancer #15673				
AR095	Small Intestine (Clontech)	Small Intestine (Clontech)				
AR096	Spleen	Spleen				
AR097	Thymus T cells activated	Thymus T cells				

		activated				
AR098	Thymus T cells resting	Thymus T cells resting				
AR099	Tonsil	Tonsil				
AR100	Tonsil germinal center centroblast	Tonsil germinal center centroblast				
AR101	Tonsil germinal center B cell	Tonsil germinal center B cell				
AR102	Tonsil lymph node	Tonsil lymph node				
AR103	Tonsil memory B cell	Tonsil memory B cell				
AR104	Whole Brain	Whole Brain				
AR105	Xenograft ES-2	Xenograft ES-2				
AR106	Xenograft SW626	Xenograft SW626				
H0004	Human Adult Spleen	Human Adult Spleen	Spleen			Uni-ZAP XR
H0013	Human 8 Week Whole Embryo	Human 8 Week Old Embryo	Embryo			Uni-ZAP XR
H0022	Jurkat Cells	Jurkat T-Cell Line				Lambda ZAP II
H0025	Human Adult Lymph Node	Human Adult Lymph Node	Lymph Node			Lambda ZAP II
H0031	Human Placenta	Human Placenta	Placenta			Uni-ZAP XR
H0050	Human Fetal Heart	Human Fetal Heart	Heart			Uni-ZAP XR
H0057	Human Fetal Spleen					Uni-ZAP XR
H0058	Human Thymus Tumor	Human Thymus Tumor	Thymus		disease	Lambda ZAP II
H0059	Human Uterine Cancer	Human Uterine Cancer	Uterus		disease	Lambda ZAP II
H0060	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0061	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0062	Human Thymus	Human Thymus	Thymus			Uni-ZAP XR
H0063	Human Thymus	Human Thymus	Thymus			Uni-ZAP XR
H0069	Human Activated T-Cells	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0073	Human Leiomyeloid Carcinoma	Human Leiomyeloid Carcinoma	Muscle		disease	Uni-ZAP XR
H0074	Human Platelets	Human Platelets	Blood	Cell Line		Uni-ZAP XR
H0075	Human Activated T-Cells (II)	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0083	HUMAN JURKAT MEMBRANE BOUND POLYSOMES	Jurkat Cells				Uni-ZAP XR
H0087	Human Thymus	Human Thymus				pBluescript
H0090	Human T-Cell Lymphoma	T-Cell Lymphoma	T-Cell		disease	Uni-ZAP XR
H0108	Human Adult Lymph Node, subtracted	Human Adult Lymph Node	Lymph Node			Uni-ZAP XR
H0109	Human Macrophage, subtracted	Macrophage	Blood	Cell Line		pBluescript
H0116	Human Thymus Tumor, subtracted	Human Thymus Tumor	Thymus			pBluescript
H0128	Jurkat cells, thiouridine activated	Jurkat Cells				Uni-ZAP XR
H0129	Jurkat cells, thiouridine activated, fract II	Jurkat Cells				Uni-ZAP XR

H0134	Raji Cells, cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0139	Activated T-Cells, 4 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0140	Activated T-Cells, 8 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0141	Activated T-Cells, 12 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0158	Activated T-Cells, 4 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0159	Activated T-Cells, 8 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0160	Activated T-Cells, 12 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0161	Activated T-Cells, 24 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0167	Activated T-Cells, 24 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0179	Human Neutrophil	Human Neutrophil	Blood	Cell Line		Uni-ZAP XR
H0185	Activated T-Cell labeled with 4-thioluril	T-Cells	Blood	Cell Line		Lambda ZAP II
H0186	Activated T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0187	Resting T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0189	Human Resting Macrophage	Human Macrophage/Monocytes	Blood	Cell Line		Uni-ZAP XR
H0191	Human Activated Macrophage (LPS), thiour	Human Macrophage/Monocytes	Blood	Cell Line		Uni-ZAP XR
H0202	Jurkat Cells, cyclohexamide treated, subtraction	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0203	Jurkat Cells, cyclohexamide treated, dif	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0218	Activated T-Cells, 0hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0219	Activated T-Cells, 0hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0220	Activated T-Cells, 4 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0221	Activated T-Cells, 4 hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0222	Activated T-Cells, 8 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0223	Activated T-Cells, 8 hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0224	Activated T-Cells, 12 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0225	Activated T-Cells, 12hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0250	Human Activated Monocytes	Human Monocytes				Uni-ZAP XR
H0253	Human adult testis, large inserts	Human Adult Testis	Testis			Uni-ZAP XR
H0254	Breast Lymph node cDNA library	Breast Lymph Node	Lymph Node			Uni-ZAP XR
H0255	breast lymph node CDNA	Breast Lymph Node	Lymph Node			Lambda

	library					ZAP II
H0261	H. cerebellum, Enzyme subtracted	Human Cerebellum	Brain			Uni-ZAP XR
H0264	human tonsils	Human Tonsil	Tonsil			Uni-ZAP XR
H0265	Activated T-Cell (12hs)/Thiouridine labelledEco	T-Cells	Blood	Cell Line		Uni-ZAP XR
H0271	Human Neutrophil, Activated	Human Neutrophil - Activated	Blood	Cell Line		Uni-ZAP XR
H0272	HUMAN TONSILS, FRACTION 2	Human Tonsil	Tonsil			Uni-ZAP XR
H0274	Human Adult Spleen, fractionII	Human Adult Spleen	Spleen			Uni-ZAP XR
H0300	CD34 positive cells (Cord Blood)	CD34 Positive Cells	Cord Blood			ZAP Express
H0305	CD34 positive cells (Cord Blood)	CD34 Positive Cells	Cord Blood			ZAP Express
H0306	CD34 depleted Buffy Coat (Cord Blood)	CD34 Depleted Buffy Coat (Cord Blood)	Cord Blood			ZAP Express
H0318	HUMAN B CELL LYMPHOMA	Human B Cell Lymphoma	Lymph Node		disease	Uni-ZAP XR
H0341	Bone Marrow Cell Line (RS4;11)	Bone Marrow Cell Line RS4;11	Bone Marrow	Cell Line		Uni-ZAP XR
H0354	Human Leukocytes	Human Leukocytes	Blood	Cell Line		pCMVSPORT 1
H0369	H. Atrophic Endometrium	Atrophic Endometrium and myometrium				Uni-ZAP XR
H0370	H. Lymph node breast Cancer	Lymph node with Met. Breast Cancer			disease	Uni-ZAP XR
H0376	Human Spleen	Human Adult Spleen	Spleen			pCMVSPORT 1
H0393	Fetal Liver, subtraction II	Human Fetal Liver	Liver			pBluescript
H0402	CD34 depleted Buffy Coat (Cord Blood), re-excision	CD34 Depleted Buffy Coat (Cord Blood)	Cord Blood			ZAP Express
H0416	Human Neutrophils, Activated, re-excision	Human Neutrophil - Activated	Blood	Cell Line		pBluescript
H0421	Human Bone Marrow, re-excision	Bone Marrow				pBluescript
H0422	T-Cell PHA 16 hrs	T-Cells	Blood	Cell Line		pSport1
H0423	T-Cell PHA 24 hrs	T-Cells	Blood	Cell Line		pSport1
H0436	Resting T-Cell Library.II	T-Cells	Blood	Cell Line		pSport1
H0439	Human Eosinophils	Eosinophils				pBluescript
H0444	Spleen metastatic melanoma	Spleen, Metastatic malignant melanoma	Spleen		disease	pSport1
H0445	Spleen, Chronic lymphocytic leukemia	Human Spleen, CLL	Spleen		disease	pSport1
H0457	Human Eosinophils	Human Eosinophils				pSport1
H0477	Human Tonsil, Lib 3	Human Tonsil	Tonsil			pSport1
H0478	Salivary Gland, Lib 2	Human Salivary Gland	Salivary gland			pSport1
H0485	Hodgkin's Lymphoma I	Hodgkin's Lymphoma I			disease	pCMVSPORT 2.0
H0486	Hodgkin's Lymphoma II	Hodgkin's Lymphoma II			disease	pCMVSPORT 2.0
H0487	Human Tonsils, lib 1	Human Tonsils				pCMVSPORT 2.0
H0488	Human Tonsils, Lib 2	Human Tonsils				pCMVSPORT

						2.0
H0494	Keratinocyte	Keratinocyte				pCMVSPORT 2.0
H0506	Ulcerative Colitis	Colon	Colon			pSport1
H0510	Human Liver, normal	Human Liver, normal, Patient # 8	Liver			pCMVSPORT 3.0
H0518	pBMC stimulated w/ poly I/C	pBMC stimulated with poly I/C				pCMVSPORT 3.0
H0521	Primary Dendritic Cells, lib 1	Primary Dendritic cells				pCMVSPORT 3.0
H0522	Primary Dendritic cells,frac 2	Primary Dendritic cells				pCMVSPORT 3.0
H0524	Primary Dendritic Cells, CapFinder, frac 2	Primary Dendritic cells				pSport1
H0529	Myeloid Progenitor Cell Line	TF-1 Cell Line; Myeloid progenitor cell line				pCMVSPORT 3.0
H0537	H. Primary Dendritic Cells,lib 3	Primary Dendritic cells				pCMVSPORT 2.0
H0542	T Cell helper I	Helper T cell				pCMVSPORT 3.0
H0543	T cell helper II	Helper T cell				pCMVSPORT 3.0
H0545	Human endometrial stromal cells-treated with progesterone	Human endometrial stromal cells-treated with proge				pCMVSPORT 3.0
H0551	Human Thymus Stromal Cells	Human Thymus Stromal Cells				pCMVSPORT 3.0
H0552	Signal trap,Femur Bone Marrow,pooled	Femur Bone marrow, pooled from 8 male/female				Other
H0556	Activated T-cell(12h)/Thiouridine-re- excision	T-Cells	Blood	Cell Line		Uni-ZAP XR
H0560	KMH2	KMH2				pCMVSPORT 3.0
H0575	Human Adult Pulmonary;re-excision	Human Adult Pulmonary	Lung			Uni-ZAP XR
H0576	Resting T-Cell; re- excision	T-Cells	Blood	Cell Line		Lambda ZAP II
H0578	Human Fetal Thymus	Fetal Thymus	Thymus			pSport1
H0580	Dendritic cells, pooled	Pooled dendritic cells				pCMVSPORT 3.0
H0581	Human Bone Marrow, treated	Human Bone Marrow	Bone Marrow			pCMVSPORT 3.0
H0583	B Cell lymphoma	B Cell Lymphoma	B Cell		disease	pCMVSPORT 3.0
H0584	Activated T-cells, 24 hrs,re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0585	Activated T-Cells,12 hrs,re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0589	CD34 positive cells (cord blood),re-ex	CD34 Positive Cells	Cord Blood			ZAP Express
H0591	Human T-cell lymphoma;re-excision	T-Cell Lymphoma	T-Cell		disease	Uni-ZAP XR
H0606	Human Primary Breast Cancer;re-excision	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0607	H.Leukocytes, normalized cot 50A3	H.Leukocytes				pCMVSPORT 1
H0608	H. Leukocytes, control	H.Leukocytes				pCMVSPORT 1
H0609	H. Leukocytes,	H.Leukocytes				pCMVSPORT

	normalized cot > 500A					1
H0610	H. Leukocytes, normalized cot 5A	H. Leukocytes				pCMV Sport 1
H0611	H. Leukocytes, normalized cot 500 B	H. Leukocytes				pCMV Sport 1
H0612	H. Leukocytes, normalized cot 50 B	H. Leukocytes				pCMV Sport 1
H0614	H. Leukocytes, normalized cot 500 A	H. Leukocytes				pCMV Sport 1
H0625	Ku 812F Basophils Line	Ku 812F Basophils				pSport1
H0635	Human Activated T-Cells, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0637	Dendritic Cells From CD34 Cells	Dendritic cells from CD34 cells				pSport1
H0638	CD40 activated monocyte dendritic cells	CD40 activated monocyte dendritic cells				pSport1
H0641	LPS activated derived dendritic cells	LPS activated monocyte derived dendritic cells				pSport1
H0650	B-Cells	B-Cells				pCMV Sport 3.0
H0653	Stromal Cells	Stromal Cells				pSport1
H0656	B-cells (unstimulated)	B-cells (unstimulated)				pSport1
H0657	B-cells (stimulated)	B-cells (stimulated)				pSport1
H0659	Ovary, Cancer (15395A1F): Grade II Papillary Carcinoma	Grade II Papillary Carcinoma, Ovary	Ovary		disease	pSport1
H0660	Ovary, Cancer: (15799A1F) Poorly differentiated carcinoma	Poorly differentiated carcinoma, ovary			disease	pSport1
H0673	Human Prostate Cancer, Stage B2; re-excision	Human Prostate Cancer, stage B2	Prostate			Uni-ZAP XR
H0677	TNFR degenerate oligo	B-Cells				PCR II
H0679	screened clones from Tonsil library	Human Tonsils				Other
S0002	Monocyte activated	Monocyte-activated	blood	Cell Line		Uni-ZAP XR
S0026	Stromal cell TF274	stromal cell	Bone marrow	Cell Line		Uni-ZAP XR
S0027	Smooth muscle, serum treated	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0031	Spinal cord	Spinal cord	spinal cord			Uni-ZAP XR
S0052	neutrophils control	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0053	Neutrophils IL-1 and LPS induced	human neutrophil induced	blood	Cell Line		Uni-ZAP XR
S0114	Anergic T-cell	Anergic T-cell		Cell Line		Uni-ZAP XR
S0116	Bone marrow	Bone marrow	Bone marrow			Uni-ZAP XR
S0134	Apoptotic T-cell	apoptotic cells		Cell Line		Uni-ZAP XR
S0140	eosinophil-IL5 induced	eosinophil	lung	Cell Line		Uni-ZAP XR
S0142	Macrophage-oxLDL	macrophage-oxidized LDL treated	blood	Cell Line		Uni-ZAP XR
S0144	Macrophage (GM-CSF treated)	Macrophage (GM-CSF treated)				Uni-ZAP XR

S0180	Bone Marrow Stroma, TNF&LPS ind	Bone Marrow Stroma, TNF & LPS induced			disease	Uni-ZAP XR
S0182	Human B Cell 8866	Human B- Cell 8866				Uni-ZAP XR
S0196	Synovial IL-1/TNF stimulated	Synovial Fibroblasts				pSport1
S0212	Bone Marrow Stromal Cell, untreated	Bone Marrow Stromal Cell, untreated				pSport1
S0216	Neutrophils IL-1 and LPS induced	human neutrophil induced	blood	Cell Line		Uni-ZAP XR
S0218	Apoptotic T-cell, re-excision	apoptotic cells		Cell Line		Uni-ZAP XR
S0222	H. Frontal cortex, epileptic; re-excision	H. Brain, Frontal Cortex, Epileptic	Brain		disease	Uni-ZAP XR
S0278	H Macrophage (GM-CSF treated), re-excision	Macrophage (GM-CSF treated)				Uni-ZAP XR
S0282	Brain Frontal Cortex, re-excision	Brain frontal cortex	Brain			Lambda ZAP II
S0292	Osteoarthritis (OA-4)	Human Osteoarthritic Cartilage	Bone		disease	pSport1
S0298	Bone marrow stroma, treated	Bone marrow stroma, treated SB	Bone marrow			pSport1
S0308	Spleen/normal	Spleen normal				pSport1
S0314	Human osteoarthritis; fraction I	Human osteoarthritic cartilage			disease	pSport1
S0344	Macrophage-oxLDL; re-excision	macrophage-oxidized LDL treated	blood	Cell Line		Uni-ZAP XR
S0358	Colon Normal III	Colon Normal	Colon			pSport1
S0418	CHME Cell Line; treated 5 hrs	CHME Cell Line; treated				pCMVSPORT 3.0
S0426	Monocyte activated; re-excision	Monocyte-activated	blood	Cell Line		Uni-ZAP XR
S0428	Neutrophils control; re-excision	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0442	Colon Normal	Colon Normal				pSport1
S0452	Thymus	Thymus				pSport1
S0474	Human blood platelets	Platelets	Blood platelets			Other
S3016	Basophil	Basophil				Uni-ZAP XR
S3018	TH1 cells	TH1 cells				Uni-ZAP XR
S3020	TH2 cells	TH2 cells				Uni-ZAP XR
S6028	Human Manic Depression Tissue	Human Manic depression tissue	Brain		disease	Uni-ZAP XR
T0002	Activated T-cells	Activated T-Cell, PBL fraction	Blood	Cell Line		pBluescript SK-
T0041	Jurkat T-cell G1 phase	Jurkat T-cell				pBluescript SK-
T0042	Jurkat T-Cell, S phase	Jurkat T-Cell Line				pBluescript SK-
T0071	Human Bone Marrow	Human Bone Marrow				pBluescript SK-
L0002	Atrium cDNA library Human heart					

L0004	ClonTech HL 1065a					
L0005	Clontech human aorta polyA+ mRNA (#6572)					
L0017	Human (J. Swensen)					
L0020	Human activated dendritic cell mRNA					
L0021	Human adult (K.Okubo)					
L0036	Human chromosome 21q22 mRNA					
L0040	Human colon mucosa					
L0041	Human epidermal keratinocyte					
L0051	Human mRNA (Tripodis and Ragoussis)					
L0055	Human promyelocyte					
L0060	Human thymus NSTH II					
L0065	Liver HepG2 cell line.					
L0070	Selected chromosome 21 cDNA library					
L0109	Human brain cDNA	brain				
L0142	Human placenta cDNA (TFujiwara)	placenta				
L0143	Human placenta polyA+ (TFujiwara)	placenta				
L0157	Human fetal brain (TFujiwara)		brain			
L0163	Human heart cDNA (YNakamura)		heart			
L0171	Human lung adenocarcinoma A549	lung adenocarcinoma		A549		
L0177	Human newborn melanocytes (T.Vogt)			Clonetics Corp. (San Diego, CA) strain #68 and 2486		
L0239	Homo sapiens brain fetus	brain				
L0307	Human C3-A11N			C3-A11N; clonally related variant of OCI LY8-C3P		
L0309	Human E8CASS	breast adenocarcinoma		E8CASS; variant of MCF7		
L0352	Normalized infant brain, Bento Soares					BA, M13-derived
L0361	Stratagene ovary (#937217)		ovary			Bluescript SK
L0362	Stratagene ovarian cancer (#937219)					Bluescript SK-
L0363	NCL_CGAP_GC2	germ cell tumor				Bluescript SK-
L0365	NCL_CGAP_Phe1	pheochromocytoma				Bluescript SK-
L0366	Stratagene schizo brain S11	schizophrenic brain S-11 frontal lobe				Bluescript SK-
L0367	NCL_CGAP_Sch1	Schwannoma tumor				Bluescript SK-

L0368	NCI_CGAP_SS1	synovial sarcoma				Bluescript SK-
L0369	NCI_CGAP_AA1	adrenal adenoma	adrenal gland			Bluescript SK-
L0370	Johnston frontal cortex	pooled frontal lobe	brain			Bluescript SK-
L0375	NCI_CGAP_Kid6	kidney tumor	kidney			Bluescript SK-
L0376	NCI_CGAP_Lar1	larynx	larynx			Bluescript SK-
L0377	NCI_CGAP_HN2	squamous cell carcinoma from vocal cord	larynx			Bluescript SK-
L0378	NCI_CGAP_Lu1	lung tumor	lung			Bluescript SK-
L0381	NCI_CGAP_HN4	squamous cell carcinoma	pharynx			Bluescript SK-
L0383	NCI_CGAP_Pr24	invasive tumor (cell line)	prostate			Bluescript SK-
L0384	NCI_CGAP_Pr23	prostate tumor	prostate			Bluescript SK-
L0385	NCI_CGAP_Gas1	gastric tumor	stomach			Bluescript SK-
L0386	NCI_CGAP_HN3	squamous cell carcinoma from base of tongue	tongue			Bluescript SK-
L0387	NCI_CGAP_GCB0	germinal center B-cells	tonsil			Bluescript SK-
L0389	NCI_CGAP_HN5	normal gingiva (cell line from primary keratinocyte)				Bluescript SK-
L0394	H, Human adult Brain Cortex tissue					gt11
L0415	b4HB3MA Cot8-HAP-Ft					Lafmid BA
L0435	Infant brain, LLNL array of Dr. M. Soares 1N1B					lafmid BA
L0438	normalized infant brain cDNA	total brain	brain			lafmid BA
L0439	Soares infant brain 1N1B		whole brain			Lafmid BA
L0451	N3HFLSK20					Lafmid K
L0452	Chromosome 21, K. Gardiner					Lambda
L0455	Human retina cDNA randomly primed sublibrary	retina	eye			lambda gt10
L0456	Human retina cDNA Tsp5091-cleaved sublibrary	retina	eye			lambda gt10
L0457	multi-tissue normalized short-fragment	multi-tissue	pooled			lambda gt10
L0459	Adult heart, Clontech					Lambda gt11
L0462	WATM1					lambda gt11
L0465	TEST1, Human adult Testis tissue					lambda nm1149
L0468	HEGW					lambda zap
L0471	Human fetal heart, Lambda ZAP Express					Lambda ZAP Express
L0475	KG1-a Lambda Zap Express cDNA library			KG1-a		Lambda Zap Express (Stratagene)
L0476	Fetal brain, Stratagene					Lambda ZAP II

L0480	Stratagene cat#937212 (1992)					Lambda ZAP, pBluescript SK(-)
L0481	CD34+DIRECTIONAL					Lambda ZAPII
L0483	Human pancreatic islet					Lambda ZAPII
L0485	STRATAGENE Human skeletal muscle cDNA library, cat. #936215.	skeletal muscle	leg muscle			Lambda ZAPII
L0492	Human Genomic					pAMP
L0493	NCL_CGAP_Ov26	papillary serous carcinoma	ovary			pAMP1
L0498	NCL_CGAP_HSC3	CD34+, T negative, patient with chronic myelogenous	bone marrow			pAMP1
L0506	NCL_CGAP_Br16	lobullar carcinoma in situ	breast			pAMP1
L0508	NCL_CGAP_Lu25	bronchioalveolar carcinoma	lung			pAMP1
L0509	NCL_CGAP_Lu26	invasive adenocarcinoma	lung			pAMP1
L0512	NCL_CGAP_Ov36	borderline ovarian carcinoma	ovary			pAMP1
L0513	NCL_CGAP_Ov37	early stage papillary serous carcinoma	ovary			pAMP1
L0515	NCL_CGAP_Ov32	papillary serous carcinoma	ovary			pAMP1
L0517	NCL_CGAP_Pr1					pAMP10
L0518	NCL_CGAP_Pr2					pAMP10
L0519	NCL_CGAP_Pr3					pAMP10
L0520	NCL_CGAP_Alv1	alveolar rhabdomyosarcoma				pAMP10
L0521	NCL_CGAP_Ew1	Ewing's sarcoma				pAMP10
L0523	NCL_CGAP_Lip2	liposarcoma				pAMP10
L0526	NCL_CGAP_Pr12	metastatic prostate bone lesion				pAMP10
L0527	NCL_CGAP_Ov2	ovary				pAMP10
L0528	NCL_CGAP_Pr5	prostate				pAMP10
L0529	NCL_CGAP_Pr6	prostate				pAMP10
L0530	NCL_CGAP_Pr8	prostate				pAMP10
L0532	NCL_CGAP_Thy1	thyroid				pAMP10
L0534	Chromosome 7 Fetal Brain cDNA Library	brain	brain			pAMP10
L0535	NCL_CGAP_Br5	infiltrating ductal carcinoma	breast			pAMP10
L0539	Chromosome 7 Placental cDNA Library		placenta			pAMP10
L0541	NCL_CGAP_Pr7	low-grade prostatic neoplasia	prostate			pAMP10
L0542	NCL_CGAP_Pr11	normal prostatic epithelial cells	prostate			pAMP10
L0543	NCL_CGAP_Pr9	normal prostatic epithelial cells	prostate			pAMP10
L0545	NCL_CGAP_Pr4.1	prostatic intraepithelial neoplasia - high grade	prostate			pAMP10
L0546	NCL_CGAP_Pr18	stroma	prostate			pAMP10
L0547	NCL_CGAP_Pr16	tumor	prostate			pAMP10
L0551	NCL_CGAP_HN7	normal squamous				pAMP10

		epithelium, floor of mouth				
L0556	NCI_CGAP_Lu34.1	large cell carcinoma	lung			pAMPI0
L0562	Chromosome 7 HeLa cDNA Library			HeLa cell line; ATCC		pAMPI0
L0565	Normal Human Trabecular Bone Cells	Bone	Hip			pBluescript
L0581	Stratagene liver (#937224)		liver			pBluescript SK
L0586	HTCDL1					pBluescript SK(-)
L0588	Stratagene endothelial cell 937223					pBluescript SK-
L0589	Stratagene fetal retina 937202					pBluescript SK-
L0590	Stratagene fibroblast (#937212)					pBluescript SK-
L0591	Stratagene HeLa cell s3 937216					pBluescript SK-
L0592	Stratagene hNT neuron (#937233)					pBluescript SK-
L0593	Stratagene neuroepithelium (#937231)					pBluescript SK-
L0594	Stratagene neuroepithelium NT2RAMI 937234					pBluescript SK-
L0595	Stratagene NT2 neuronal precursor 937230	neuroepithelial cells	brain			pBluescript SK-
L0596	Stratagene colon (#937204)		colon			pBluescript SK-
L0597	Stratagene corneal stroma (#937222)		cornea			pBluescript SK-
L0598	Morton Fetal Cochlea	cochlea	ear			pBluescript SK-
L0599	Stratagene lung (#937210)		lung			pBluescript SK-
L0600	Weizmann Olfactory Epithelium	olfactory epithelium	nose			pBluescript SK-
L0601	Stratagene pancreas (#937208)		pancreas			pBluescript SK-
L0602	Pancreatic Islet	pancreatic islet	pancreas			pBluescript SK-
L0603	Stratagene placenta (#937225)		placenta			pBluescript SK-
L0604	Stratagene muscle 937209	muscle	skeletal muscle			pBluescript SK-
L0605	Stratagene fetal spleen (#937205)	fetal spleen	spleen			pBluescript SK-
L0606	NCI_CGAP_Lym5	follicular lymphoma	lymph node			pBluescript SK-
L0607	NCI_CGAP_Lym6	mantle cell lymphoma	lymph node			pBluescript SK-
L0608	Stratagene lung carcinoma 937218	lung carcinoma	lung	NCI-H69		pBluescript SK-
L0612	Schiller oligodendroglioma	oligodendroglioma	brain			pBluescript SK- (Stratagene)
L0617	Chromosome 22 exon					pBluescriptII KS+
L0619	Chromosome 9 exon II					pBluescriptII

L0622	HM1				KS+
L0623	HM3	pectoral muscle (after mastectomy)			pcDNAII (Invitrogen)
L0626	NCI_CGAP_GC1	bulk germ cell seminoma			pcDNAII (Invitrogen)
L0629	NCI_CGAP_Mel3	metastatic melanoma to bowel	bowel (skin primary)		pCMV- SPORT2
L0631	NCI_CGAP_Br7		breast		pCMV- SPORT4
L0633	NCI_CGAP_Lu6	small cell carcinoma	lung		pCMV- SPORT4
L0634	NCI_CGAP_Ov8	serous adenocarcinoma	ovary		pCMV- SPORT4
L0635	NCI_CGAP_PNS1	dorsal root ganglion	peripheral nervous system		pCMV- SPORT4
L0637	NCI_CGAP_Brn53	three pooled meningiomas	brain		pCMV- SPORT6
L0638	NCI_CGAP_Brn35	tumor, 5 pooled (see description)	brain		pCMV- SPORT6
L0639	NCI_CGAP_Brn52	tumor, 5 pooled (see description)	brain		pCMV- SPORT6
L0640	NCI_CGAP_Br18	four pooled high- grade tumors, including two prima	breast		pCMV- SPORT6
L0641	NCI_CGAP_Co17	juvenile granulosa tumor	colon		pCMV- SPORT6
L0643	NCI_CGAP_Co19	moderately differentiated adenocarcinoma	colon		pCMV- SPORT6
L0644	NCI_CGAP_Co20	moderately differentiated adenocarcinoma	colon		pCMV- SPORT6
L0645	NCI_CGAP_Co21	moderately differentiated adenocarcinoma	colon		pCMV- SPORT6
L0646	NCI_CGAP_Co14	moderately- differentiated adenocarcinoma	colon		pCMV- SPORT6
L0647	NCI_CGAP_Sar4	five pooled sarcomas, including myxoid liposarcoma	connective tissue		pCMV- SPORT6
L0648	NCI_CGAP_Eso2	squamous cell carcinoma	esophagus		pCMV- SPORT6
L0649	NCI_CGAP_GU1	2 pooled high-grade transitional cell tumors	genitourinary tract		pCMV- SPORT6
L0651	NCI_CGAP_Kid8	renal cell tumor	kidney		pCMV- SPORT6
L0652	NCI_CGAP_Lu27	four pooled poorly- differentiated adenocarcinomas	lung		pCMV- SPORT6
L0653	NCI_CGAP_Lu28	two pooled squamous cell carcinomas	lung		pCMV- SPORT6
L0654	NCI_CGAP_Lu31		lung, cell line		pCMV- SPORT6
L0655	NCI_CGAP_Lym12	lymphoma, follicular mixed small and large cell	lymph node		pCMV- SPORT6
L0656	NCI_CGAP_Ov38	normal epithelium	ovary		pCMV-

L0657	NCL_CGAP_Ov23	tumor, 5 pooled (see description)	ovary			SPORT6
L0658	NCL_CGAP_Ov35	tumor, 5 pooled (see description)	ovary			pCMV-SPORT6
L0659	NCL_CGAP_Pan1	adenocarcinoma	pancreas			pCMV-SPORT6
L0661	NCL_CGAP_Mel15	malignant melanoma, metastatic to lymph node	skin			pCMV-SPORT6
L0662	NCL_CGAP_Gas4	poorly differentiated adenocarcinoma with signet r	stomach			pCMV-SPORT6
L0663	NCL_CGAP_Ut2	moderately-differentiated endometrial adenocarcino	uterus			pCMV-SPORT6
L0664	NCL_CGAP_Ut3	poorly-differentiated endometrial adenocarcinoma,	uterus			pCMV-SPORT6
L0665	NCL_CGAP_Ut4	serous papillary carcinoma, high grade, 2 pooled t	uterus			pCMV-SPORT6
L0666	NCL_CGAP_Ut1	well-differentiated endometrial adenocarcinoma, 7	uterus			pCMV-SPORT6
L0667	NCL_CGAP_CML1	myeloid cells, 18 pooled CML cases, BCR/ABL reara	whole blood			pCMV-SPORT6
L0682	Stanley Frontal NB pool 2	frontal lobe (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0686	Stanley Frontal SN pool 2	frontal lobe (see description) ,	brain			pCR2.1-TOPO (Invitrogen)
L0697	Testis 1					PGEM 5zf(+)
L0700	Outward Alu-primed hncDNA library					pGEM-3Z
L0717	Gessler Wilms tumor					pSPORT1
L0720	PN001-Normal Human Prostate		prostate			pSport1
L0731	Soares_pregnant_uterus_NbHPU		uterus			pT7T3-Pac
L0738	Human colorectal cancer					pT7T3D
L0740	Soares melanocyte 2NbHM	melanocyte				pT7T3D (Pharmacia) with a modified polylinker
L0741	Soares adult brain N2b4HB55Y		brain			pT7T3D (Pharmacia) with a modified polylinker
L0742	Soares adult brain N2b5HB55Y		brain			pT7T3D (Pharmacia) with a modified polylinker
L0743	Soares breast 2NbHBst		breast			pT7T3D (Pharmacia)

						with a modified polylinker
L0744	Soares breast 3NbHBst		breast			pT7T3D (Pharmacia) with a modified polylinker
L0745	Soares retina N2b4HR	retina	eye			pT7T3D (Pharmacia) with a modified polylinker
L0746	Soares retina N2b5HR	retina	eye			pT7T3D (Pharmacia) with a modified polylinker
L0747	Soares_fetal_heart_NbHH19W		heart			pT7T3D (Pharmacia) with a modified polylinker
L0748	Soares fetal liver spleen INFLS		Liver and Spleen			pT7T3D (Pharmacia) with a modified polylinker
L0749	Soares_fetal_liver_spleen_INFLS_S1		Liver and Spleen			pT7T3D (Pharmacia) with a modified polylinker
L0750	Soares_fetal_lung_NbHL19W		lung			pT7T3D (Pharmacia) with a modified polylinker
L0751	Soares ovary tumor NbHOT	ovarian tumor	ovary			pT7T3D (Pharmacia) with a modified polylinker
L0752	Soares_parathyroid_tumor_NbHPA	parathyroid tumor	parathyroid gland			pT7T3D (Pharmacia) with a modified polylinker
L0753	Soares_pineal_gland_N3H PG		pineal gland			pT7T3D (Pharmacia) with a modified polylinker
L0754	Soares placenta Nb2HP		placenta			pT7T3D (Pharmacia) with a modified polylinker
L0755	Soares_placenta_8to9week_ks_2NbHP8to9W		placenta			pT7T3D (Pharmacia) with a modified polylinker

L0756	Soares_multiple_sclerosis_NbHMSF	multiple sclerosis lesions				pT7T3D (Pharmacia) with a modified polylinker V_TYPE
L0757	Soares_senescent_fibroblasts_NbHSF	senescent fibroblast				pT7T3D (Pharmacia) with a modified polylinker V_TYPE
L0758	Soares_testis_NHT					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0759	Soares_total_fetus_Nb2HF8_9w					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0761	NCI_CGAP_CLL1	B-cell, chronic lymphocytic leukemia				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0762	NCI_CGAP_Br1.1	breast				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0763	NCI_CGAP_Br2	breast				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0764	NCI_CGAP_Co3	colon				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0766	NCI_CGAP_GCB1	germinal center B cell				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0767	NCI_CGAP_GC3	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0768	NCI_CGAP_GC4	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0769	NCI_CGAP_Brn25	anaplastic oligodendroglioma	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0770	NCI_CGAP_Brn23	glioblastoma (pooled)	brain			pT7T3D-Pac (Pharmacia)

						with a modified polylinker
L0771	NCL_CGAP_Co8	adenocarcinoma	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0772	NCL_CGAP_Co10	colon tumor RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0773	NCL_CGAP_Co9	colon tumor RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0774	NCL_CGAP_Kid3		kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0775	NCL_CGAP_Kid5	2 pooled tumors (clear cell type)	kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0776	NCL_CGAP_Lu5	carcinoid	lung			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0777	Soares_NhHMPu_S1	Pooled human melanocyte, fetal heart, and pregnant	mixed (see below)			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0779	Soares_NFL_T_GBC_S1		pooled			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0780	Soares_NSF_F8_9W_OT_PA_P_S1		pooled			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0783	NCL_CGAP_Pr22	normal prostate	prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0784	NCL_CGAP_Lei2	leiomyosarcoma	soft tissue			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0785	Barstead spleen HPLRB2		spleen			pT7T3D-Pac (Pharmacia) with a modified polylinker

L0786	Soares_NbHFB		whole brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0787	NCI_CGAP_Sub1					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0788	NCI_CGAP_Sub2					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0789	NCI_CGAP_Sub3					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0790	NCI_CGAP_Sub4					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0791	NCI_CGAP_Sub5					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0792	NCI_CGAP_Sub6					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0794	NCI_CGAP_GC6	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0796	NCI_CGAP_Brm50	medulloblastoma	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0800	NCI_CGAP_Co16	colon tumor, RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0803	NCI_CGAP_Kid11		kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0804	NCI_CGAP_Kid12	2 pooled tumors (clear cell type)	kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0805	NCI_CGAP_Lu24	carcinoid	lung			pT7T3D-Pac (Pharmacia) with a modified

L0806	NCI_CGAP_Lu19	squamous cell carcinoma, poorly differentiated (4	lung			polylinker
L0809	NCI_CGAP_Pr28		prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L2245	NEM subtracted human fetal kidney cDNA					pUEX1
L2250	Human cerebral cortex	cerebral cortex				
L2251	Human fetal lung	Fetal lung				

TABLE 5

OMIM Reference	Description
100678	ACAT2 deficiency
102578	Leukemia, acute promyelocytic, PML/RARA type
102770	Myoadenylate deaminase deficiency
103000	Hemolytic anemia due to adenylate kinase deficiency
103050	Autism, succinylpurinemic
103050	Adenylosuccinase deficiency
103600	[Dysalbuminemic hyperthyroxinemia]
103600	[Dysalbuminemic hyperzincemia], 194470
103600	Analbuminemia
103850	Aldolase A deficiency
104150	[AFP deficiency, congenital]
104150	[Hereditary persistence of alpha-fetoprotein]
104170	NAGA deficiency, mild
104170	Schindler disease
104170	Kanzaki disease
104311	Alzheimer disease-3
104500	Amelogenesis imperfecta-2, hypoplastic local type
104770	Amyloidosis, secondary, susceptibility to
105580	Anal canal carcinoma
106165	Hypertension, essential, 145500
106300	Ankylosing spondylitis
107280	Cerebrovascular disease, occlusive
107280	Alpha-1-antichymotrypsin deficiency
107300	Antithrombin III deficiency
107400	Emphysema
107400	Emphysema-cirrhosis
107470	Atypical mycobacterial infection, familial disseminated, 209950
107470	BCG infection, generalized familial
107470	Tuberculosis, susceptibility to
107670	Apolipoprotein A-II deficiency
107741	Hyperlipoproteinemia, type III
107777	Diabetes insipidus, nephrogenic, autosomal recessive, 222000
108725	Atherosclerosis, susceptibility to
108730	Brody myopathy, 601003
108800	Atrial septal defect, secundum type
108962	Hypertension, salt-resistant
108985	Atrophia areata
109150	Machado-Joseph disease
109270	Renal tubular acidosis, distal, 179800
109270	Spherocytosis, hereditary
109270	[Acanthocytosis, one form]
109270	[Elliptocytosis, Malaysian-Melanesian type]

109270	Hemolytic anemia due to band 3 defect
109560	Leukemia/lymphoma, B-cell, 3
109690	Asthma, nocturnal, susceptibility to
109690	Obesity, susceptibility to
109700	Hemodialysis-related amyloidosis
110700	Vivax malaria, susceptibility to
113705	Ovarian cancer
113705	Breast cancer-1
113721	Breast cancer
113900	Heart block, progressive familial, type I
114208	Malignant hyperthermia susceptibility 5, 601887
114208	Hypokalemic periodic paralysis, 170400
114350	Leukemia, acute myeloid
114835	Monocyte carboxyesterase deficiency
115470	Cat eye syndrome
116800	Cataract, Marner type
116860	Cavernous angiomaticous malformations
117700	[Hypoceruloplasminemia, hereditary]
117700	Hemosiderosis, systemic, due to aceruloplasminemia
118210	Charcot-Marie-Tooth neuropathy-2A
118485	Polycystic ovary syndrome with hyperandrogenemia
119300	van der Woude syndrome
120110	Metaphyseal chondrodysplasia, Schmid type
120215	Ehlers-Danlos syndrome, type I, 130000
120215	Ehlers-Danlos syndrome, type II, 130010
120220	Bethlem myopathy, 158810
120240	Bethlem myopathy, 158810
120260	Epiphyseal dysplasia, multiple, type 2, 600204
120280	Stickler syndrome, type III
120280	Marshall syndrome, 154780
120290	OSMED syndrome, 215150
120290	Stickler syndrome, type II, 184840
120435	Muir-Torre syndrome, 158320
120435	Colorectal cancer, hereditary, nonpolyposis, type 1 Ovarian cancer
120550	C1q deficiency, type A
120570	C1q deficiency, type B
120575	C1q deficiency, type C
120620	SLE susceptibility
120620	CR1 deficiency
120700	C3 deficiency
120810	C4 deficiency
120820	C4 deficiency
120900	C5 deficiency
120920	Measles, susceptibility to
120940	C9 deficiency

120950	C8 deficiency, type I
120960	C8 deficiency, type II
121011	Deafness, autosomal dominant 3, 601544
121011	Deafness, autosomal recessive 1, 220290
121014	Heterotaxia, viscerotaxial, autosomal recessive
121360	Myeloid leukemia, acute, M4Eo subtype
121700	Congenital hereditary endothelial dystrophy of cornea
121800	Corneal dystrophy, crystalline, Schnyder
122000	Corneal dystrophy, posterior polymorphous
122500	[Transcortin deficiency]
122560	ACTH deficiency, 201400
122720	Nicotine addiction, protection from
122720	Coumarin resistance, 122700
123000	Cranio metaphyseal dysplasia
123101	Craniosynostosis, type 2
123270	[Creatine kinase, brain type, ectopic expression of]
123580	Cataract, congenital, autosomal dominant
123620	Cataract, cerulean, type 2, 601547
123829	Melanoma
123940	White sponge nevus, 193900
124030	Parkinsonism, susceptibility to
124030	Debrisoquine sensitivity
124200	Darier disease (keratosis follicularis)
125490	Dentinogenesis imperfecta-1
125852	Insulin-dependent diabetes mellitus-2
126060	Anemia, megaloblastic, due to DHFR deficiency
126340	Xeroderma pigmentosum, group D, 278730
126391	DNA ligase I deficiency
126452	Autonomic nervous system dysfunction
126452	[Novelty seeking personality]
126600	Drusen, radial, autosomal dominant
126650	Chloride diarrhea, congenital, Finnish type, 214700
126650	Colon cancer
129490	Ectodermal dysplasia-3, anhidrotic
129500	Ectodermal dysplasia, hidrotic
129900	EEC syndrome-1
130410	Glutaricaciduria, type IIB
130500	Elliptocytosis-1
130650	Beckwith-Wiedemann syndrome
131195	Hereditary hemorrhagic telangiectasia-1, 187300
131210	Atherosclerosis, susceptibility to
131400	Eosinophilia, familial
132700	Cylindromatosis
133170	Erythremia
133171	[Erythrocytosis, familial], 133100
133200	Erythrokeratoderma variabilis

133780	Vitreoretinopathy, exudative, familial
134370	Factor H deficiency
134370	Hemolytic-uremic syndrome, 235400
134370	Membranoproliferative glomerulonephritis
134570	Factor XIII A deficiency
134580	Factor XIII B deficiency
134790	Hyperferritinemia-cataract syndrome, 600886
135300	Fibromatosis, gingival
135940	Ichthyosis vulgaris, 146700
136132	[Fish-odor syndrome], 602079
136435	Ovarian dysgenesis, hypergonadotropic, with normal karyotype, 233300
136550	Macular dystrophy, North Carolina type
136836	Fucosyltransferase-6 deficiency
137600	Iridogoniodysgenesis syndrome
138079	Hyperinsulinism, familial, 602485
138079	MODY, type 2, 125851
138140	Glucose transport defect, blood-brain barrier
138190	Diabetes mellitus, noninsulin-dependent
138491	Startle disease, autosomal recessive
138491	Startle disease/hyperekplexia, autosomal dominant, 149400
138491	Hyperekplexia and spastic paraparesis
138570	Non-insulin dependent diabetes mellitus, susceptibility to
138971	Kostmann neutropenia, 202700
138981	Pulmonary alveolar proteinosis, 265120
139190	Gigantism due to GHRF hypersecretion
139190	Isolated growth hormone deficiency due to defect in GHRF
139191	Growth hormone deficient dwarfism
139330	Night blindness, congenital stationary
139350	Epidermolytic hyperkeratosis, 113800
139350	Keratoderma, palmoplantar, nonepidermolytic
139360	Pituitary ACTH-secreting adenoma
140100	[Anhaptoglobinemia]
140100	[Hypohaptoglobinemia]
141900	Methemoglobinemias, beta-
141900	Sickle cell anemia
141900	Thalassemias, beta-
141900	Erythremias, beta-
141900	HPFH, deletion type
141900	Heinz body anemias, beta-
142000	Thalassemia due to Hb Lepore
142000	Thalassemia, delta-
142200	HPFH, nondeletion type A
142250	HPFH, nondeletion type G
142270	Hereditary persistence of fetal hemoglobin
142360	Thrombophilia due to heparin cofactor II deficiency

142470	[Hereditary persistence of fetal hemoglobin, heterocellular]
142857	Pemphigoid, susceptibility to
142858	Beryllium disease, chronic, susceptibility to
142959	Hand-foot-uterus syndrome, 140000
143200	Wagner syndrome
143200	Erosive vitreoretinopathy
143890	Hypercholesterolemia, familial
144200	Epidermolytic palmoplantar keratoderma
145001	Hyperparathyroidism-jaw tumor syndrome
145260	Pseudohypoadosteronism, type II
145981	Hypocalciuric hypercalcemia, type II
146760	[IgG receptor I, phagocytic, familial deficiency of]
146790	Lupus nephritis, susceptibility to
147061	Allergy and asthma susceptibility
147141	Leukemia, acute lymphoblastic
147280	Hepatocellular carcinoma
147440	Growth retardation with deafness and mental retardation
147557	Epidermolysis bullosa, junctional, with pyloric atresia, 226730
147570	Interferon, immune, deficiency
147575	Myelodysplastic syndrome, preleukemic
147575	Myelogenous leukemia, acute
147575	Macrocytic anemia refractory, of 5q- syndrome, 153550
147781	Atopy, susceptibility to
148040	Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and Weber-Cockayne types, 131900, 131760, 131800
148041	Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200
148043	Meesmann corneal dystrophy, 122100
148065	White sponge nevus, 193900
148066	Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and Weber-Cockayne types, 131900, 131760, 131800
148066	Epidermolysis bullosa simplex, recessive, 601001
148067	Nonepidermolytic palmoplantar keratoderma, 600962
148067	Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200
148069	Pachyonychia congenita, Jackson-Lawler type, 167210
148070	Liver disease, susceptibility to, from hepatotoxins or viruses
148080	Epidermolytic hyperkeratosis, 113800
148900	Klippel-Feil syndrome with laryngeal malformation
150000	Exertional myoglobinuria due to deficiency of LDH-A
150210	Lactoferrin-deficient neutrophils, 245480
150240	Cutis laxa, marfanoid neonatal type
150250	Larsen syndrome, autosomal dominant
150270	Laryngeal adductor paralysis
150292	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, generalized atrophic benign, 226650
151385	Leukemia, acute myeloid

151410	Leukemia, chronic myeloid
151440	Leukemia, T-cell acute lymphoblastoid
151670	Hepatic lipase deficiency
152200	Coronary artery disease, susceptibility to
152445	Vohwinkel syndrome, 124500
152445	Erythrokeratoderma, progressive symmetric, 602036
152760	Hypogonadotropic hypogonadism due to GNRH deficiency, 227200
152780	Hypogonadism, hypergonadotropic
152780	Male pseudohermaphroditism due to defective LH
152790	Precocious puberty, male, 176410
152790	Leydig cell hypoplasia
153455	Cutis laxa, recessive, type I, 219100
153880	Macular dystrophy, dominant cystoid
154275	Malignant hyperthermia susceptibility 2
154276	Malignant hyperthermia susceptibility 3
154500	Treacher Collins mandibulofacial dysostosis
154550	Carbohydrate-deficient glycoprotein syndrome, type Ib, 602579
156225	Muscular dystrophy, congenital merosin-deficient
157170	Holoprosencephaly-2
157640	PEO with mitochondrial DNA deletions, type 1
159000	Muscular dystrophy, limb-girdle, type 1A
159001	Muscular dystrophy, limb-girdle, type 1B
159440	Charcot-Marie-Tooth neuropathy-1B, 118200
159440	Dejerine-Sottas disease, myelin P-related, 145900
159440	Hypomyelination, congenital
160781	Cardiomyopathy, hypertrophic, mid-left ventricular chamber type
160900	Myotonic dystrophy
162200	Neurofibromatosis, type 1
162200	Watson syndrome, 193520
164040	Leukemia, acute promyelocytic, NPM/RARA type
164200	Oculodentodigital dysplasia
164200	Syndactyly, type III, 186100
164500	Spinocerebellar ataxia-7
164731	Ovarian carcinoma, 167000
164860	Renal cell carcinoma, papillary, familial and sporadic
164953	Liposarcoma
165215	3q21q26 syndrome
165500	Optic atrophy 1
166600	Osteopetrosis, AD, type II
166800	Otosclerosis
167000	Ovarian cancer, serous
167250	Paget disease of bone
167409	Optic nerve coloboma with renal disease, 120330
167415	Hypothyroidism, congenital, due to thyroid dysgenesis or hypoplasia

168360	Paraneoplastic sensory neuropathy
168468	Metaphyseal chondrodysplasia, Murk Jansen type, 156400
168610	Parkinsonism-dementia with pallidopontonigral degeneration
169600	Hailey-Hailey disease
170261	Bare lymphocyte syndrome, type I, due to TAP2 deficiency
170650	Periodontitis, juvenile
170995	Zellweger syndrome-2
171190	Hypertension, essential, 145500
171760	Hypophosphatasia, adult, 146300
171760	Hypophosphatasia, infantile, 241500
171860	Hemolytic anemia due to phosphofructokinase deficiency
172400	Hemolytic anemia due to glucosephosphate isomerase deficiency
172400	Hydrops fetalis, one form
172411	Colorectal cancer, resistance to
172471	Glycogenosis, hepatic, autosomal
172490	Phosphorylase kinase deficiency of liver and muscle, 261750
173350	Plasminogen Tochigi disease
173350	Plasminogen deficiency, types I and II
173350	Thrombophilia, dysplasminogenemic
173360	Thrombophilia due to excessive plasminogen activator inhibitor
173360	Hemorrhagic diathesis due to PAI1 deficiency
173610	Platelet alpha/delta storage pool deficiency
173850	Polio, susceptibility to
174000	Medullary cystic kidney disease, AD
174900	Polyposis, juvenile intestinal
176000	Porphyria, acute intermittent
176100	Porphyria cutanea tarda
176100	Porphyria, hepatoerythropoietic
176705	Breast cancer, sporadic
176730	Diabetes mellitus, rare form
176730	Hyperproinsulinemia, familial
176730	MODY, one form
176830	Obesity, adrenal insufficiency, and red hair
176830	ACTH deficiency
176860	Purpura fulminans, neonatal
176860	Thrombophilia due to protein C deficiency
176943	Apert syndrome, 101200
176943	Pfeiffer syndrome, 101600
176943	Beare-Stevenson cutis gyrata syndrome, 123790
176943	Crouzon craniofacial dysostosis, 123500
176943	Jackson-Weiss syndrome, 123150
176947	Selective T-cell defect
177070	Spherocytosis, hereditary, Japanese type
177070	Hermansky-Pudlak syndrome, 203300
177900	Psoriasis susceptibility-1
178300	Ptois, hereditary congenital, 1

178640	Pulmonary alveolar proteinosis, congenital, 265120
179450	Ragweed sensitivity
179755	Renal cell carcinoma, papillary, 1
179820	[Hyperproreninemia]
180020	Retinal cone dystrophy-1
180071	Retinitis pigmentosa, autosomal recessive
180100	Retinitis pigmentosa-1
180104	Retinitis pigmentosa-9
180105	Retinitis pigmentosa-10
180250	Retinol binding protein, deficiency of
180297	Anemia, hemolytic, Rh-null, suppressor type, 268150
180380	Night blindness, congenital stationary, rhodopsin-related
180380	Retinitis pigmentosa, autosomal recessive
180380	Retinitis pigmentosa-4, autosomal dominant
180901	Malignant hyperthermia susceptibility 1, 145600
180901	Central core disease, 117000
181405	Scapuloperoneal spinal muscular atrophy, New England type
181430	Scapuloperoneal syndrome, myopathic type
181460	Schistosoma mansoni, susceptibility/resistance to
181510	Schizophrenia
182138	Anxiety-related personality traits
182280	Small-cell cancer of lung
182380	Glucose/galactose malabsorption
182381	Renal glucosuria, 253100
182500	Cataract, congenital
182600	Spastic paraplegia-3A
182601	Spastic paraplegia-4
182860	Pyropoikilocytosis
182860	Spherocytosis, recessive
182860	Elliptocytosis-2
185000	Stomatocytosis I
185430	Atherosclerosis, susceptibility to
185470	Myopathy due to succinate dehydrogenase deficiency
185800	Symphalangism, proximal
186580	Arthrocutaneousveval granulomatosis
186770	Leukemia, T-cell acute lymphocytic
186780	CD3, zeta chain, deficiency
186880	Leukemia/lymphoma, T-cell
186921	Leukemia, T-cell acute lymphoblastic
186960	Leukemia/lymphoma, T-cell
187040	Leukemia-1, T-cell acute lymphoblastic
188040	Thrombophilia due to thrombomodulin defect
188070	Bleeding disorder due to defective thromboxane A2 receptor
188400	Velocardiofacial syndrome, 192430
188400	DiGeorge syndrome
188826	Sorsby fundus dystrophy, 136900

189800	Preeclampsia/eclampsia
189980	Leukemia, chronic myeloid
190000	Atransferrinemia
190020	Bladder cancer, 109800
190040	Dermatofibrosarcoma protuberans
190040	Giant-cell fibroblastoma
190040	Meningioma, SIS-related
190100	Geniospasm
190195	Ichthyosiform erythroderma, congenital, 242100
190195	Ichthyosis, lamellar, autosomal recessive, 242300
190198	Leukemia, T-cell acute lymphoblastic
190685	Down syndrome
190900	Colorblindness, tritan
191030	Nemaline myopathy-1, 161800
191044	Cardiomyopathy, familial hypertrophic
191045	Cardiomyopathy, familial hypertrophic, 2, 115195
191290	Segawa syndrome, recessive
191315	Insensitivity to pain, congenital, with anhidrosis, 256800
192090	Ovarian carcinoma
192090	Breast cancer, lobular
192090	Endometrial carcinoma
192090	Gastric cancer, familial, 137215
192500	Jervell and Lange-Nielsen syndrome, 220400
192500	Long QT syndrome-1
194071	Wilms tumor, type 2
194071	Adrenocortical carcinoma, hereditary, 202300
200150	Choreoacanthocytosis
200350	Acetyl-CoA carboxylase deficiency
201470	Acyl-CoA dehydrogenase, short-chain, deficiency of
201910	Adrenal hyperplasia, congenital, due to 21-hydroxylase deficiency
202200	Glucocorticoid deficiency, due to ACTH unresponsiveness
203310	Ocular albinism, autosomal recessive
203500	Alkaptonuria
204500	Ceroid-lipofuscinosis, neuronal 2, classic late infantile
205900	Anemia, Diamond-Blackfan
207750	Hyperlipoproteinemia, type Ib
207800	Argininemia
208100	Arthrogryposis multiplex congenita, neurogenic
208250	Jacobs syndrome
210900	Bloom syndrome
214400	Charcot-Marie-Tooth neuropathy-4A
216550	Cohen syndrome
216900	Achromatopsia
217000	C2 deficiency
217030	C3b inactivator deficiency

217050	C6 deficiency
217050	Combined C6/C7 deficiency
217070	C7 deficiency
217095	Conotruncal cardiac anomalies
217300	Cornea plana congenita, recessive
217800	Macular corneal dystrophy
218000	Andermann syndrome
218030	Apparent mineralocorticoid excess, hypertension due to
221770	Polycystic lipomembranous osteodysplasia with sclerosing leukencephalopathy
221820	Gliososis, familial progressive subcortical
222100	Diabetes mellitus, insulin-dependent-1
222600	Atelosteogenesis II, 256050
222600	Achondrogenesis Ib, 600972
222600	Diastrophic dysplasia
222700	Lysinuric protein intolerance
222800	Hemolytic anemia due to bisphosphoglycerate mutase deficiency
222900	Sucrose intolerance
223900	Dysautonomia, familial
224100	Congenital dyserythropoietic anemia II
225500	Ellis-van Creveld syndrome
227220	[Eye color, brown]
227646	Fanconi anemia, type D
229300	Friedreich ataxia
229300	Friedreich ataxia with retained reflexes
229600	Fructose intolerance
229800	[Fructosuria]
230000	Fucosidosis
230350	Galactose epimerase deficiency
230400	Galactosemia
230800	Gaucher disease
230800	Gaucher disease with cardiovascular calcification
231550	Achalasia-addisonianism-alacrimia syndrome
231680	Glutaricaciduria, type IIA
232050	Propionicacidemia, type II or pccB type
232200	Glycogen storage disease I
232400	Glycogen storage disease IIIa
232400	Glycogen storage disease IIIb
233100	[Renal glucosuria]
233710	Chronic granulomatous disease due to deficiency of NCF-2
234000	Factor XII deficiency
235200	Hemochromatosis
235800	[Histidinemia]
236100	Holoprosencephaly-1
236200	Homocystinuria, B6-responsive and nonresponsive types
236730	Urofacial syndrome

238310	Hyperglycinemia, nonketotic, type II
239100	Van Buchem disease
240300	Autoimmune polyglandular disease, type I
243500	Isovalericacidemia
245050	Ketoacidosis due to SCOT deficiency
245200	Krabbe disease
245900	Norum disease
245900	Fish-eye disease
246450	HMG-CoA lyase deficiency
246530	Leukotriene C4 synthase deficiency
246900	Lipoamide dehydrogenase deficiency
247200	Miller-Dieker lissencephaly syndrome
248510	Mannosidosis, beta-
248600	Maple syrup urine disease, type Ia
248611	Maple syrup urine disease, type Ib
249000	Meckel syndrome
250100	Metachromatic leukodystrophy
250250	Cartilage-hair hypoplasia
250800	Methemoglobinemia, type I
250800	Methemoglobinemia, type II
251000	Methylmalonicaciduria, mutase deficiency type
251600	Microphthalmia, autosomal recessive
252920	Sanfilippo syndrome, type B
252940	Sanfilippo syndrome, type D
253200	Maroteaux-Lamy syndrome, several forms
253250	Mulibrey nanism
253700	Muscular dystrophy, limb-girdle, type 2C
253800	Walker-Warburg syndrome, 236670
253800	Fukuyama type congenital muscular dystrophy
254210	Myasthenia gravis, familial infantile
255800	Schwartz-Jampel syndrome
256100	Nephronophthisis, juvenile
256540	Galactosialidosis
256550	Sialidosis, type I
256550	Sialidosis, type II
257200	Niemann-Pick disease, type A
257200	Niemann-Pick disease, type B
258501	3-methylglutaconicaciduria, type III
258870	Gyrate atrophy of choroid and retina with ornithinemia, B6 responsive or unresponsive
261510	Pseudo-Zellweger syndrome
261600	Phenylketonuria
261600	[Hyperphenylalaninemia, mild]
261640	Phenylketonuria due to PTS deficiency
263200	Polycystic kidney disease, autosomal recessive
263700	Porphyria, congenital erythropoietic

264300	Pseudohermaphroditism, male, with gynecomastia
264700	Pseudo-vitamin D dependency rickets 1
266200	Anemia, hemolytic, due to PK deficiency
266600	Inflammatory bowel disease-1
267750	Knobloch syndrome
268800	Sandhoff disease, infantile, juvenile, and adult forms
268800	Spinal muscular atrophy, HEXB-related
269920	Salla disease
270100	Situs inversus viscerum
271245	Spinocerebellar ataxia-8, infantile, with sensory neuropathy
271900	Canavan disease
272750	GM2-gangliosidosis, AB variant
272800	Tay-Sachs disease
272800	[Hex A pseudodeficiency]
272800	GM2-gangliosidosis, juvenile, adult
273300	Male germ cell tumor
274600	Pendred syndrome
274600	Deafness, autosomal recessive 4
276600	Tyrosinemia, type II
276700	Tyrosinemia, type I
276900	Usher syndrome, type 1A
276902	Usher syndrome, type 3
278000	Wolman disease
278000	Cholesteryl ester storage disease
278300	Xanthinuria, type I
278760	Xeroderma pigmentosum, group F
300031	Mental retardation, X-linked, FRAXF type
300044	Wernicke-Korsakoff syndrome, susceptibility to
300048	Intestinal pseudoobstruction, neuronal, X-linked
300049	Nodular heterotopia, bilateral periventricular
300049	BPNH/MR syndrome
300055	Mental retardation with psychosis, pyramidal signs, and macroorchidism
300100	Adrenoleukodystrophy
300100	Adrenomyeloneuropathy
300104	Mental retardation, X-linked nonspecific, 309541
300126	Dyskeratosis congenita-1, 305000
301201	Amelogenesis imperfecta-3, hypoplastic type
301220	Partington syndrome II
301590	Anophthalmos-1
302060	Noncompaction of left ventricular myocardium, isolated
302060	Barth syndrome
302060	Cardiomyopathy, X-linked dilated, 300069
302060	Endocardial fibroelastosis-2
302350	Nance-Horan syndrome
302960	Chondrodysplasia punctata, X-linked dominant

303700	Colorblindness, blue monochromatic
303800	Colorblindness, deutan
303900	Colorblindness, protan
304040	Charcot-Marie-Tooth neuropathy, X-linked-1, dominant, 302800
304800	Diabetes insipidus, nephrogenic
305100	Anhidrotic ectodermal dysplasia
305450	FG syndrome
305900	Favism
305900	G6PD deficiency
305900	Hemolytic anemia due to G6PD deficiency
306400	Chronic granulomatous disease, X-linked
306700	Hemophilia A
306995	[Homosexuality, male]
308310	Incontinentia pigmenti, familial
308840	Spastic paraplegia, 312900
308840	Hydrocephalus due to aqueductal stenosis, 307000
308840	MASA syndrome, 303350
309200	Manic-depressive illness, X-linked
309470	Mental retardation, X-linked, syndromic-3, with spastic diplegia
309548	Mental retardation, X-linked, FRAXE type
309585	Mental retardation, X-linked, syndromic-6, with gynecomastia and obesity
309600	Allan-Herndon syndrome
309605	Mental retardation, X-linked, syndromic-4, with congenital contractures and low fingertip arches
309620	Mental retardation-skeletal dysplasia
309900	Mucopolysaccharidosis II
310300	Emery-Dreifuss muscular dystrophy
310400	Myotubular myopathy, X-linked
310460	Myopia-1
310460	Bornholm eye disease
311250	Ornithine transcarbamylase deficiency
311300	Otopalatodigital syndrome, type I
311360	Ovarian failure, premature
311510	Waisman parkinsonism-mental retardation syndrome
312040	N syndrome, 310465
312610	Retinitis pigmentosa-3
312760	Turner syndrome
314250	Dystonia-3, torsion, with parkinsonism, Filipino type
314300	Goeminne TKCR syndrome
314400	Cardiac valvular dysplasia-1
314580	Wieacker-Wolff syndrome
314850	McLeod phenotype
400003	Sertoli-cell-only syndrome
415000	Sertoli-cell-only syndrome
600020	Prostate cancer, 176807

600040	Colorectal cancer
600049	Myelodysplasia syndrome-1
600059	Retinitis pigmentosa-13
600065	Leukocyte adhesion deficiency, 116920
600095	Split hand/foot malformation, type 3
600101	Deafness, autosomal dominant 2
600105	Retinitis pigmentosa-12, autosomal recessive
600119	Muscular dystrophy, Duchenne-like, type 2
600119	Adhalinopathy, primary
600138	Retinitis pigmentosa-11
600163	Long QT syndrome-3
600173	SCID, autosomal recessive, T-negative/B-positive type
600175	Spinal muscular atrophy, congenital nonprogressive, of lower limbs
600179	Leber congenital amaurosis, type I, 204000
600184	Carnitine acetyltransferase deficiency
600194	Ichthyosis bullosa of Siemens, 146800
600202	Dyslexia, specific, 2
600211	Cleidocranial dysplasia, 119600
600223	Spinocerebellar ataxia-4
600231	Palmoplantar keratoderma, Bothnia type
600243	Temperature-sensitive apoptosis
600261	Ehlers-Danlos-like syndrome
600276	Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy, 125310
600281	Non-insulin-dependent diabetes mellitus, 125853
600281	MODY, type 1, 125850
600309	Atrioventricular canal defect-1
600310	Pseudoachondroplasia, 177170
600310	Epiphyseal dysplasia, multiple 1, 132400
600320	Insulin-dependent diabetes mellitus-5
600334	Tibial muscular dystrophy
600354	Spinal muscular atrophy-1, 253300
600354	Spinal muscular atrophy-2, 253550
600354	Spinal muscular atrophy-3, 253400
600374	Bardet-Biedl syndrome 4
600429	[Ii blood group, 110800]
600512	Epilepsy, partial
600536	Myopathy, congenital
600542	Chondrosarcoma, extraskeletal myxoid
600584	Atrial septal defect with atrioventricular conduction defects, 108900
600593	Craniosynostosis, Adelaide type
600650	Myopathy due to CPT II deficiency, 255110
600650	CPT deficiency, hepatic, type II, 600649
600652	Deafness, autosomal dominant 4

600698	Salivary adenoma
600698	Uterine leiomyoma
600698	Lipoma
600698	Lipomatosis, mutiple, 151900
600701	Lipoma
600722	Ceroid lipofuscinosis, neuronal, variant juvenile type, with granular osmiophilic deposits
600722	Ceroid lipofuscinosis, neuronal-I, infantile, 256730
600757	Orofacial cleft-3
600759	Alzheimer disease-4
600760	Pseudohypoaldosteronism, type I, 264350
600760	Liddle syndrome, 177200
600761	Pseudohypoaldosteronism, type I, 264350
600761	Liddle syndrome, 177200
600807	Bronchial asthma
600808	Enuresis, nocturnal, 2
600837	Hirschsprung disease, 142623
600839	Bartter syndrome, 241200
600850	Schizophrenia disorder-4
600856	Beckwith-Wiedemann syndrome, 130650
600881	Cataract, congenital, zonular, with sutural opacities
600882	Charcot-Marie-Tooth neuropathy-2B
600883	Diabetes mellitus, insulin-dependent, 8
600884	Cardiomyopathy, familial dilated 1B
600887	Endometrial carcinoma
600897	Cataract, zonular pulverulent-1, 116200
600899	Severe combined immunodeficiency, type I, 202500
600918	Cystinuria, type III
600919	Long QT syndrome-4 with sinus bradycardia
600923	Porphyria variegata, 176200
600946	Short stature, autosomal dominant, with normal serum growth hormone binding protein
600946	Short stature, idiopathic
600946	Laron dwarfism, 262500
600956	Persistent Mullerian duct syndrome, type II, 261550
600957	Persistent Mullerian duct syndrome, type I, 261550
600968	Gitelman syndrome, 263800
600971	Deafness, autosomal recessive 6
600974	Deafness, autosomal recessive 7
600977	Cone dystrophy, progressive
600994	Deafness, autosomal dominant 5
600995	Nephrotic syndrome, idiopathic, steroid-resistant
600998	Bleeding diathesis due to GNAQ deficiency
601002	5-oxoprolinuria, 266130
601002	Hemolytic anemia due to glutathione synthetase deficiency, 231900

601071	Deafness, autosomal recessive 9
601072	Deafness, autosomal recessive 8
601105	Pycnodysostosis, 265800
601107	Dubin-Johnson syndrome, 237500
601130	Tolbutamide poor metabolizer
601145	Epilepsy, progressive myoclonic 1, 254800
601146	Brachydactyly, type C, 113100
601146	Acromesomelic dysplasia, Hunter-Thompson type, 201250
601146	Chondrodysplasia, Grebe type, 200700
601154	Cardiomyopathy, dilated, 1E
601199	Neonatal hyperparathyroidism, 239200
601199	Hypocalcemia, autosomal dominant, 601198
601199	Hypocalciuric hypercalcemia, type I, 145980
601202	Cataract, anterior polar-2
601208	Insulin-dependent diabetes mellitus-11
601226	Progressive external ophthalmoplegia, type 2
601238	Cerebellar ataxia, Cayman type
601267	HIV infection, susceptibility/resistance to
601284	Hereditary hemorrhagic telangiectasia-2, 600376
601313	Polycystic kidney disease, adult type I, 173900
601316	Deafness, autosomal dominant 10
601363	Wilms tumor, type 4
601373	HIV infection, susceptibility/resistance to
601402	Leukemia, myeloid, acute
601406	B-cell non-Hodgkin lymphoma, high-grade
601410	Diabetes mellitus, transient neonatal
601411	Muscular dystrophy, limb-girdle, type 2F, 601287
601412	Deafness, autosomal dominant 7
601414	Retinitis pigmentosa-18
601471	Moebius syndrome-2
601493	Cardiomyopathy, dilated 1C
601494	Cardiomyopathy, familial, dilated-2
601518	Prostate cancer, hereditary, 1, 176807
601542	Rieger syndrome, type 1, 180500
601545	Lissencephaly-1
601596	Charcot-Marie-Tooth neuropathy, demyelinating
601604	Mycobacterial and salmonella infections, susceptibility to
601607	Rhabdoid tumors
601620	Holt-Oram syndrome, 142900
601621	Ulnar-mammary syndrome, 181450
601649	Blepharophimosis, epicanthus inversus, and ptosis, type 2
601652	Glaucoma 1A, primary open angle, juvenile-onset, 137750
601669	Hirschsprung disease, one form
601680	Distal arthrogyriposis, type 2B
601682	Glaucoma 1C, primary open angle
601690	Platelet-activating factor acetylhydrolase deficiency

601691	Retinitis pigmentosa-19, 601718
601691	Stargardt disease-1, 248200
601691	Cone-rod dystrophy 3
601691	Fundus flavimaculatus with macular dystrophy, 248200
601718	Retinitis pigmentosa-19
601757	Rhizomelic chondrodysplasia punctata, type 1, 215100
601769	Osteoporosis, involutional
601769	Rickets, vitamin D-resistant, 277440
601771	Glaucoma 3A, primary infantile, 231300
601777	Cone dystrophy, progressive
601780	Ceroid-lipofuscinosis, neuronal-6, variant late infantile
601800	[Hair color, brown]
601841	Protein C inhibitor deficiency
601843	Hypothyroidism, congenital, 274400
601844	Pseudohypoaldosteronism type II
601846	Muscular dystrophy with rimmed vacuoles
601863	Bare lymphocyte syndrome, complementation group C
601868	Deafness, autosomal dominant 13
601885	Cataract, zonular pulverulent-2
601916	Pancreatic cancer
601928	Monilethrix, 158000
601954	Muscular dystrophy, limb-girdle, type 2G
601969	Glioblastoma multiforme, 137800
601969	Medulloblastoma, 155255
601975	Ectodermal dysplasia/skin fragility syndrome
602014	Hypomagnesemia with secondary hypocalcemia
602066	Convulsions, infantile and paroxysmal choreoathetosis
602067	Cardiomyopathy, dilated, 1F
602081	Speech-language disorder-1
602082	Corneal dystrophy, Thiel-Behnke type
602084	Endometrial carcinoma
602088	Nephronophtosis, infantile
602089	Hemangioma, capillary, hereditary
602092	Deafness, autosomal recessive 18
602094	Lipodystrophy, familial partial
602116	Glioma
602134	Tremor, familial essential, 2
602136	Refsum disease, infantile, 266510
602136	Zellweger syndrome-1, 214100
602136	Adrenoleukodystrophy, neonatal, 202370
602153	Monilethrix, 158000
602216	Peutz-Jeghers syndrome, 175200
602221	Stem-cell leukemia/lymphoma syndrome
602225	Cone-rod retinal dystrophy-2, 120970
602225	Leber congenital amaurosis, type III
602279	Oculopharyngeal muscular dystrophy, 164300

602279	Oculopharyngeal muscular dystrophy, autosomal recessive, 257950
602280	Retinitis pigmentosa-14, 600132
602363	Ellis-van Creveld-like syndrome
602403	Alzheimer disease, susceptibility to
602421	Sweat chloride elevation without CF
602421	Congenital bilateral absence of vas deferens, 277180
602421	Cystic fibrosis, 219700
602447	Coronary artery disease, susceptibility to
602475	Ossification of posterior longitudinal ligament of spine
602476	Febrile convulsions, familial, 1
602477	Febrile convulsions, familial, 2
602491	Hyperlipidemia, familial combined, 1
602544	Parkinson disease, juvenile, type 2, 600116
602568	Homocystinuria-megaloblastic anemia, cbl E type, 236270
602574	Deafness, autosomal dominant 12, 601842
602574	Deafness, autosomal dominant 8, 601543
602575	Nail-patella syndrome with open-angle glaucoma, 137750
602575	Nail-patella syndrome, 161200
602629	Dystonia-6, torsion
602631	Rhabdomyosarcoma, 268210
602631	Breast Cancer
602669	Anterior segment mesenchymal dysgenesis and cataract, 107250
602669	Cataract, congenital
602685	Mental retardation, severe, with spasticity and tapetoretinal degeneration
602716	Nephrosis-1, congenital, Finnish type, 256300
602771	Muscular dystrophy, congenital, with early spine rigidity
602772	Retinitis pigmentosa-24

Polynucleotide and Polypeptide Variants

[091] The present invention is also directed to variants of the immune/hematopoietic associated polynucleotide sequence disclosed in SEQ ID NO:X or the complementary strand thereto, nucleotide sequences encoding the polypeptide of SEQ ID NO:Y, the nucleotide sequence of SEQ ID NO:X encoding the polypeptide sequence as defined in column 6 of Table 1A, nucleotide sequences encoding the polypeptide as defined in column 6 of Table 1A, the nucleotide sequence as defined in columns 8 and 9 of Table 2, nucleotide sequences encoding the polypeptide encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, the nucleotide sequence as defined in column 6 of Table 1B, nucleotide sequences encoding the polypeptide encoded by the nucleotide sequence as defined in column 6 of Table 1B, the cDNA sequence contained in Clone ID NO:Z, and/or nucleotide sequences encoding a polypeptide encoded by the cDNA sequence contained in Clone ID NO:Z.

[092] The present invention also encompasses variants of the polypeptide sequence disclosed in SEQ ID NO:Y, a polypeptide sequence as defined in column 6 of Table 1A, a polypeptide sequence encoded by the polynucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, a polypeptide sequence encoded by the nucleotide sequence as defined in column 6 of Table 1B, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, and/or a polypeptide sequence encoded by the cDNA sequence contained in Clone ID NO:Z.

[093] "Variant" refers to a polynucleotide or polypeptide differing from the polynucleotide or polypeptide of the present invention, but retaining essential properties thereof. Generally, variants are overall closely similar, and, in many regions, identical to the polynucleotide or polypeptide of the present invention.

[094] Thus, one aspect of the invention provides an isolated nucleic acid molecule comprising, or alternatively consisting of, a polynucleotide having a nucleotide sequence selected from the group consisting of: (a) a nucleotide sequence described in SEQ ID NO:X or contained in the cDNA sequence of Clone ID NO:Z; (b) a nucleotide sequence in SEQ ID NO:X or the cDNA in Clone ID NO:Z which encodes a mature immune/hematopoietic associated polypeptide; (c) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes a biologically active

fragment of an immune/hematopoietic associated polypeptide; (d) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes an antigenic fragment of an immune/hematopoietic associated polypeptide; (e) a nucleotide sequence encoding an immune/hematopoietic associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (f) a nucleotide sequence encoding a mature immune/hematopoietic associated polypeptide of the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (g) a nucleotide sequence encoding a biologically active fragment of an immune/hematopoietic associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (h) a nucleotide sequence encoding an antigenic fragment of an immune/hematopoietic associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (i) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), or (h), above.

[095] The present invention is also directed to nucleic acid molecules which comprise, or alternatively consist of, a nucleotide sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), (h), or (i) above, the nucleotide coding sequence in SEQ ID NO:X or the complementary strand thereto, the nucleotide coding sequence of the cDNA contained in Clone ID NO:Z or the complementary strand thereto, a nucleotide sequence encoding the polypeptide of SEQ ID NO:Y, a nucleotide sequence encoding a polypeptide sequence encoded by the nucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, a nucleotide sequence encoding the polypeptide encoded by the cDNA contained in Clone ID NO:Z, the nucleotide coding sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, a nucleotide sequence encoding the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, the nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto, a nucleotide sequence encoding the polypeptide encoded by the nucleotide sequence in SEQ

ID NO:B as defined in column 6 of Table 1B or the complementary strand thereto, the nucleotide sequence in SEQ ID NO:X encoding the polypeptide sequence as defined in column 6 of Table 1A or the complementary strand thereto, nucleotide sequences encoding a polypeptide as defined in column 6 of Table 1A or the complementary strand thereto, and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides and nucleic acids.

[096] In a preferred embodiment, the invention encompasses nucleic acid molecules which comprise, or alternatively, consist of a polynucleotide which hybridizes under stringent hybridization conditions, or alternatively, under lower stringency conditions, to a polynucleotide in (a), (b), (c), (d), (e), (f), (g), (h), or (i) above, as are polypeptides encoded by these polynucleotides. In another preferred embodiment, polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

[097] In another embodiment, the invention provides a purified protein comprising, or alternatively consisting of, a polypeptide having an amino acid sequence selected from the group consisting of: (a) the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (b) the amino acid sequence of a mature immune/hematopoietic associated polypeptide having the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (c) the amino acid sequence of a biologically active fragment of an immune/hematopoietic associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (d) the amino acid sequence of an antigenic fragment of an immune/hematopoietic associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z.

[098] The present invention is also directed to proteins which comprise, or alternatively consist of, an amino acid sequence which is at least 80%, 85%, 90%, 95%,

96%, 97%, 98%, 99% or 100%, identical to, for example, any of the amino acid sequences in (a), (b), (c), or (d), above, the amino acid sequence shown in SEQ ID NO:Y, the amino acid sequence encoded by the cDNA contained in Clone ID NO:Z, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, the amino acid sequence as defined in column 6 of Table 1A, an amino acid sequence encoded by the nucleotide sequence in SEQ ID NO:X, and an amino acid sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X. Fragments of these polypeptides are also provided (e.g., those fragments described herein). Further proteins encoded by polynucleotides which hybridize to the complement of the nucleic acid molecules encoding these amino acid sequences under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are the polynucleotides encoding these proteins.

[099] By a nucleic acid having a nucleotide sequence at least, for example, 95% "identical" to a reference nucleotide sequence of the present invention, it is intended that the nucleotide sequence of the nucleic acid is identical to the reference sequence except that the nucleotide sequence may include up to five point mutations per each 100 nucleotides of the reference nucleotide sequence encoding the polypeptide. In other words, to obtain a nucleic acid having a nucleotide sequence at least 95% identical to a reference nucleotide sequence, up to 5% of the nucleotides in the reference sequence may be deleted or substituted with another nucleotide, or a number of nucleotides up to 5% of the total nucleotides in the reference sequence may be inserted into the reference sequence. The query sequence may be an entire sequence referred to in Table 1A or 2 as the ORF (open reading frame), or any fragment specified, as described herein.

[0100] As a practical matter, whether any particular nucleic acid molecule or polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a nucleotide sequence of the present invention can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci. 6:237-245

(1990)). In a sequence alignment the query and subject sequences are both DNA sequences. An RNA sequence can be compared by converting U's to T's. The result of said global sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB alignment of DNA sequences to calculate percent identity are: Matrix=Unitary, k-tuple=4, Mismatch Penalty=1, Joining Penalty=30, Randomization Group Length=0, Cutoff Score=1, Gap Penalty=5, Gap Size Penalty 0.05, Window Size=500 or the length of the subject nucleotide sequence, whichever is shorter.

[0101] If the subject sequence is shorter than the query sequence because of 5' or 3' deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for 5' and 3' truncations of the subject sequence when calculating percent identity. For subject sequences truncated at the 5' or 3' ends, relative to the query sequence, the percent identity is corrected by calculating the number of bases of the query sequence that are 5' and 3' of the subject sequence, which are not matched/aligned, as a percent of the total bases of the query sequence. Whether a nucleotide is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This corrected score is what is used for the purposes of the present invention. Only bases outside the 5' and 3' bases of the subject sequence, as displayed by the FASTDB alignment, which are not matched/aligned with the query sequence, are calculated for the purposes of manually adjusting the percent identity score.

[0102] For example, a 90 base subject sequence is aligned to a 100 base query sequence to determine percent identity. The deletions occur at the 5' end of the subject sequence and therefore, the FASTDB alignment does not show a matched/alignment of the first 10 bases at 5' end. The 10 unpaired bases represent 10% of the sequence (number of bases at the 5' and 3' ends not matched/total number of bases in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 bases were perfectly matched the final percent identity would be 90%. In another example, a 90 base subject sequence is compared with a 100 base query sequence. This time the deletions are internal deletions so that there are no bases on the 5' or 3' of the subject sequence which are not matched/aligned with the query. In this case

the percent identity calculated by FASTDB is not manually corrected. Once again, only bases 5' and 3' of the subject sequence which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

[0103] By a polypeptide having an amino acid sequence at least, for example, 95% "identical" to a query amino acid sequence of the present invention, it is intended that the amino acid sequence of the subject polypeptide is identical to the query sequence except that the subject polypeptide sequence may include up to five amino acid alterations per each 100 amino acids of the query amino acid sequence. In other words, to obtain a polypeptide having an amino acid sequence at least 95% identical to a query amino acid sequence, up to 5% of the amino acid residues in the subject sequence may be inserted, deleted, (indels) or substituted with another amino acid. These alterations of the reference sequence may occur at the amino or carboxy terminal positions of the reference amino acid sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence.

[0104] As a practical matter, whether any particular polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to, for instance, the amino acid sequence of a polypeptide referred to in Table 1A (e.g., an amino acid sequence identified in columns 5 or 6) or Table 2 (e.g., the amino acid sequence of the polypeptide encoded by the polynucleotide sequence defined in columns 8 and 9 of Table 2) or a fragment thereof, the amino acid sequence of the polypeptide encoded by the polynucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment thereof, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X or a fragment thereof, or an amino acid sequence of the polypeptide encoded by cDNA contained in Clone ID NO:Z, or a fragment thereof, can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci.6:237-245 (1990)). In a sequence alignment the query and subject sequences are either both nucleotide sequences or both amino acid sequences. The result of said global

sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB amino acid alignment are: Matrix=PAM 0, k-tuple=2, Mismatch Penalty=1, Joining Penalty=20, Randomization Group Length=0, Cutoff Score=1, Window Size=sequence length, Gap Penalty=5, Gap Size Penalty=0.05, Window Size=500 or the length of the subject amino acid sequence, whichever is shorter.

[0105] If the subject sequence is shorter than the query sequence due to N- or C-terminal deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for N- and C-terminal truncations of the subject sequence when calculating global percent identity. For subject sequences truncated at the N- and C-termini, relative to the query sequence, the percent identity is corrected by calculating the number of residues of the query sequence that are N- and C-terminal of the subject sequence, which are not matched/aligned with a corresponding subject residue, as a percent of the total bases of the query sequence. Whether a residue is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This final percent identity score is what is used for the purposes of the present invention. Only residues to the N- and C-termini of the subject sequence, which are not matched/aligned with the query sequence, are considered for the purposes of manually adjusting the percent identity score. That is, only query residue positions outside the farthest N- and C- terminal residues of the subject sequence.

[0106] For example, a 90 amino acid residue subject sequence is aligned with a 100 residue query sequence to determine percent identity. The deletion occurs at the N-terminus of the subject sequence and therefore, the FASTDB alignment does not show a matching/alignment of the first 10 residues at the N-terminus. The 10 unpaired residues represent 10% of the sequence (number of residues at the N- and C- termini not matched/total number of residues in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 residues were perfectly matched the final percent identity would be 90%. In another example, a 90 residue subject sequence is compared with a 100 residue query sequence. This time the deletions are internal deletions so there are no residues at the N- or C-termini of the subject sequence which are not matched/aligned with the query. In this case the percent

identity calculated by FASTDB is not manually corrected. Once again, only residue positions outside the N- and C-terminal ends of the subject sequence, as displayed in the FASTDB alignment, which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

[0107] The polynucleotide variants of the invention may contain alterations in the coding regions, non-coding regions, or both. Especially preferred are polynucleotide variants containing alterations which produce silent substitutions, additions, or deletions, but do not alter the properties or activities of the encoded polypeptide. Nucleotide variants produced by silent substitutions due to the degeneracy of the genetic code are preferred. Moreover, polypeptide variants in which less than 50, less than 40, less than 30, less than 20, less than 10, or 5-50, 5-25, 5-10, 1-5, or 1-2 amino acids are substituted, deleted, or added in any combination are also preferred. Polynucleotide variants can be produced for a variety of reasons, e.g., to optimize codon expression for a particular host (change codons in the human mRNA to those preferred by a bacterial host such as *E. coli*).

[0108] Naturally occurring variants are called "allelic variants," and refer to one of several alternate forms of a gene occupying a given locus on a chromosome of an organism. (Genes II, Lewin, B., ed., John Wiley & Sons, New York (1985).) These allelic variants can vary at either the polynucleotide and/or polypeptide level and are included in the present invention. Alternatively, non-naturally occurring variants may be produced by mutagenesis techniques or by direct synthesis.

[0109] Using known methods of protein engineering and recombinant DNA technology, variants may be generated to improve or alter the characteristics of the polypeptides of the present invention. For instance, one or more amino acids can be deleted from the N-terminus or C-terminus of the polypeptides of the present invention without substantial loss of biological function. As an example, the authors of Ron et al., J. Biol. Chem. 268: 2984-2988 (1993), reported variant KGF proteins having heparin binding activity even after deleting 3, 8, or 27 amino-terminal amino acid residues. Similarly, Interferon gamma exhibited up to ten times higher activity after deleting 8-10 amino acid residues from the carboxy terminus of this protein. (Dobeli et al., J. Biotechnology 7:199-216 (1988).)

[0110] Moreover, ample evidence demonstrates that variants often retain a biological activity similar to that of the naturally occurring protein. For example, Gayle and coworkers (J. Biol. Chem. 268:22105-22111 (1993)) conducted extensive mutational analysis of human cytokine IL-1a. They used random mutagenesis to generate over 3,500 individual IL-1a mutants that averaged 2.5 amino acid changes per variant over the entire length of the molecule. Multiple mutations were examined at every possible amino acid position. The investigators found that "[m]ost of the molecule could be altered with little effect on either [binding or biological activity]." In fact, only 23 unique amino acid sequences, out of more than 3,500 nucleotide sequences examined, produced a protein that significantly differed in activity from wild-type.

[0111] Furthermore, even if deleting one or more amino acids from the N-terminus or C-terminus of a polypeptide results in modification or loss of one or more biological functions, other biological activities may still be retained. For example, the ability of a deletion variant to induce and/or to bind antibodies which recognize the secreted form will likely be retained when less than the majority of the residues of the secreted form are removed from the N-terminus or C-terminus. Whether a particular polypeptide lacking N- or C-terminal residues of a protein retains such immunogenic activities can readily be determined by routine methods described herein and otherwise known in the art.

[0112] Thus, the invention further includes polypeptide variants which show a functional activity (e.g., biological activity) of the polypeptides of the invention. Such variants include deletions, insertions, inversions, repeats, and substitutions selected according to general rules known in the art so as have little effect on activity.

[0113] The present application is directed to nucleic acid molecules at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, (e.g., encoding a polypeptide having the amino acid sequence of an N and/or C terminal deletion), irrespective of whether they encode a polypeptide having functional activity. This is because even where a particular nucleic acid molecule does not encode a polypeptide having functional activity, one of skill in the art would still know how to use the nucleic acid molecule, for instance, as a hybridization probe or a polymerase chain reaction (PCR) primer. Uses of the nucleic acid molecules of the present invention that do not encode a polypeptide having functional activity include, *inter alia*, (1) isolating a gene or allelic or splice variants thereof in a cDNA library; (2) in situ

hybridization (e.g., "FISH") to metaphase chromosomal spreads to provide precise chromosomal location of the gene, as described in Verma et al., *Human Chromosomes: A Manual of Basic Techniques*, Pergamon Press, New York (1988); (3) Northern Blot analysis for detecting mRNA expression in specific tissues (e.g., normal immune/hematopoietic or diseased immune/hematopoietic tissues); and (4) *in situ* hybridization (e.g., histochemistry) for detecting mRNA expression in specific tissues (e.g., normal immune/hematopoietic or diseased immune/hematopoietic tissues).

[0114] Preferred, however, are nucleic acid molecules having sequences at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, which do, in fact, encode a polypeptide having functional activity. By a polypeptide having "functional activity" is meant, a polypeptide capable of displaying one or more known functional activities associated with a full-length (complete) protein of the invention. Such functional activities include, but are not limited to, biological activity, antigenicity [ability to bind (or compete with a polypeptide of the invention for binding) to an anti-polypeptide of the invention antibody], immunogenicity (ability to generate antibody which binds to a specific polypeptide of the invention), ability to form multimers with polypeptides of the invention, and ability to bind to a receptor or ligand for a polypeptide of the invention.

[0115] The functional activity of the polypeptides, and fragments, variants and derivatives of the invention, can be assayed by various methods.

[0116] For example, in one embodiment where one is assaying for the ability to bind or compete with full-length polypeptide of the present invention for binding to an anti-polypeptide of the invention antibody, various immunoassays known in the art can be used, including but not limited to, competitive and non-competitive assay systems using techniques such as radioimmunoassays, ELISA (enzyme linked immunosorbent assay), "sandwich" immunoassays, immunoradiometric assays, gel diffusion precipitation reactions, immunodiffusion assays, *in situ* immunoassays (using colloidal gold, enzyme or radioisotope labels, for example), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. In one embodiment, antibody binding is detected by detecting a label on the primary antibody. In another embodiment, the primary antibody is detected by detecting binding

of a secondary antibody or reagent to the primary antibody. In a further embodiment, the secondary antibody is labeled. Many means are known in the art for detecting binding in an immunoassay and are within the scope of the present invention.

[0117] In another embodiment, where a ligand is identified, or the ability of a polypeptide fragment, variant or derivative of the invention to multimerize is being evaluated, binding can be assayed, e.g., by means well-known in the art, such as, for example, reducing and non-reducing gel chromatography, protein affinity chromatography, and affinity blotting. See generally, Phizicky et al., *Microbiol. Rev.* 59:94-123 (1995). In another embodiment, the ability of physiological correlates of a polypeptide of the present invention to bind to a substrate(s) of the polypeptide of the invention can be routinely assayed using techniques known in the art.

[0118] In addition, assays described herein (see Examples) and otherwise known in the art may routinely be applied to measure the ability of polypeptides of the present invention and fragments, variants and derivatives thereof to elicit polypeptide related biological activity (either *in vitro* or *in vivo*). Other methods will be known to the skilled artisan and are within the scope of the invention.

[0119] Of course, due to the degeneracy of the genetic code, one of ordinary skill in the art will immediately recognize that a large number of the nucleic acid molecules having a sequence at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99%, or 100% identical to, for example, the nucleic acid sequence of the cDNA contained in Clone ID NO:Z, a nucleic acid sequence referred to in Table 1A (e.g., SEQ ID NO:X), a nucleic acid sequence disclosed in Table 2 (e.g., the nucleic acid sequence delineated in columns 8 and 9) or fragments thereof, will encode polypeptides "having functional activity." In fact, since degenerate variants of any of these nucleotide sequences all encode the same polypeptide, in many instances, this will be clear to the skilled artisan even without performing the above described comparison assay. It will be further recognized in the art that, for such nucleic acid molecules that are not degenerate variants, a reasonable number will also encode a polypeptide having functional activity. This is because the skilled artisan is fully aware of amino acid substitutions that are either less likely or not likely to significantly effect protein function (e.g., replacing one aliphatic amino acid with a second aliphatic amino acid), as further described below.

- [0120] For example, guidance concerning how to make phenotypically silent amino acid substitutions is provided in Bowie et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," *Science* 247:1306-1310 (1990), wherein the authors indicate that there are two main strategies for studying the tolerance of an amino acid sequence to change.
- [0121] The first strategy exploits the tolerance of amino acid substitutions by natural selection during the process of evolution. By comparing amino acid sequences in different species, conserved amino acids can be identified. These conserved amino acids are likely important for protein function. In contrast, the amino acid positions where substitutions have been tolerated by natural selection indicates that these positions are not critical for protein function. Thus, positions tolerating amino acid substitution could be modified while still maintaining biological activity of the protein.
- [0122] The second strategy uses genetic engineering to introduce amino acid changes at specific positions of a cloned gene to identify regions critical for protein function. For example, site directed mutagenesis or alanine-scanning mutagenesis (introduction of single alanine mutations at every residue in the molecule) can be used. See Cunningham et al., *Science* 244:1081-1085 (1989). The resulting mutant molecules can then be tested for biological activity.
- [0123] As the authors state, these two strategies have revealed that proteins are surprisingly tolerant of amino acid substitutions. The authors further indicate which amino acid changes are likely to be permissive at certain amino acid positions in the protein. For example, most buried (within the tertiary structure of the protein) amino acid residues require nonpolar side chains, whereas few features of surface side chains are generally conserved. Moreover, tolerated conservative amino acid substitutions involve replacement of the aliphatic or hydrophobic amino acids Ala, Val, Leu and Ile; replacement of the hydroxyl residues Ser and Thr; replacement of the acidic residues Asp and Glu; replacement of the amide residues Asn and Gln, replacement of the basic residues Lys, Arg, and His; replacement of the aromatic residues Phe, Tyr, and Trp, and replacement of the small-sized amino acids Ala, Ser, Thr, Met, and Gly. Besides conservative amino acid substitutions, variants of the present invention include (i) substitutions with one or more of the non-conserved amino acid residues, where the substituted amino acid residues may or may not be one encoded by the genetic code, or (ii)

substitutions with one or more of the amino acid residues having a substituent group, or (iii) fusion of the mature polypeptide with another compound, such as a compound to increase the stability and/or solubility of the polypeptide (for example, polyethylene glycol), or (iv) fusion of the polypeptide with additional amino acids, such as, for example, an IgG Fc fusion region peptide, serum albumin (preferably human serum albumin) or a fragment or variant thereof, or leader or secretory sequence, or a sequence facilitating purification. Such variant polypeptides are deemed to be within the scope of those skilled in the art from the teachings herein.

[0124] For example, polypeptide variants containing amino acid substitutions of charged amino acids with other charged or neutral amino acids may produce proteins with improved characteristics, such as less aggregation. Aggregation of pharmaceutical formulations both reduces activity and increases clearance due to the aggregate's immunogenic activity. See Pinckard et al., Clin. Exp. Immunol. 2:331-340 (1967); Robbins et al., Diabetes 36: 838-845 (1987); Cleland et al., Crit. Rev. Therapeutic Drug Carrier Systems 10:307-377 (1993).

[0125] A further embodiment of the invention relates to polypeptides which comprise the amino acid sequence of a polypeptide having an amino acid sequence which contains at least one amino acid substitution, but not more than 50 amino acid substitutions, even more preferably, not more than 40 amino acid substitutions, still more preferably, not more than 30 amino acid substitutions, and still even more preferably, not more than 20 amino acid substitutions from a polypeptide sequence disclosed herein. Of course it is highly preferable for a polypeptide to have an amino acid sequence which comprises the amino acid sequence of a polypeptide of SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, an amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, an amino acid sequence encoded by the complement of SEQ ID NO:X, and/or the amino acid sequence encoded by cDNA contained in Clone ID NO:Z which contains, in order of ever-increasing preference, at least one, but not more than 10, 9, 8, 7, 6, 5, 4, 3, 2 or 1 amino acid substitutions.

[0126] In specific embodiments, the polypeptides of the invention comprise, or alternatively, consist of, fragments or variants of a reference amino acid sequence selected from: (a) the amino acid sequence of SEQ ID NO:Y or fragments thereof (e.g., the mature form and/or other fragments described herein); (b) the amino acid sequence encoded by